Knowledge changes everything
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The University of Oslo (UiO) aims to strengthen its position as a leading university that excels in research and research-based education. UiO intends to develop into one of Europe’s best universities. UiO is currently ranked as the 19th best university in Europe and number 69 worldwide among the 10,000 universities in the Academic Ranking of World Universities (Shanghai ranking).

UiO aims to be an academic powerhouse, a strategic actor and an attractive partner for international cooperation.

The University of Oslo is a supplier of knowledge to Norway, as well as a globally engaged university. UiO will contribute to the international pool of knowledge and ensure that international research is also put to use in a national context.

Core activities
UiO’s core activities are education and research. The university will offer education programmes that place a particular emphasis on the knowledge, skills and attitudes that can only be developed at an internationally-oriented research university. UiO is a university with a broad profile and many national responsibilities.

High-quality research and education in a wide range of subjects provides favourable conditions for fostering excellence, since the production of new knowledge requires contributions from several subject areas at the same time, in new combinations. There must therefore be a balance between prioritizing elite research groups and ensuring development and renewal in all fields.

Strategic Advisory Board
UiO established an international board in 2012 to achieve the goals defined in Strategy 2020. The board was to submit recommendations on the future direction of the university. Comprising seven high-profile international experts, the Strategic Advisory Board was led by the former prime minister of Finland, Esko Aho. The panel presented its reflections and recommendations in August 2014, in a report entitled “Build a Ladder to the Stars”.

The main conclusion of the report is that UiO must strengthen its interdisciplinary endeavours and its ability to implement change successfully. This also means that the organization and decision-making processes at UiO must be reviewed. The Board will use the report as a basis for clarifying priorities and for ensuring that the university has the power to carry through its various projects.

University premises
The University of Oslo is responsible for managing a large number of buildings, many of which are of considerable age. The Office of the Auditor General of Norway has pointed to a need for more long-term planning for the maintenance and rehabilitation of the buildings. UiO is currently drawing up a new facilities master plan as a specific response to this challenge. The new master plan will set the main parameters for future property development and indicate major priorities from a long-term perspective.

Goal achievement and equality
The Board has defined six performance indicators for UiO. Performance goals for 2014 were set in 2011, and the results are positive. UiO is doing well in terms of publication points per academic man-year and grants from the EU and The Research Council of Norway. The same applies to conferred PhD degrees. However, challenges remain with regard to student credit production and the number of exchange students.

Equality and gender-neutral career development are important to UiO and were given priority in Strategy 2020. The Action Plan for Gender Equality sets specific targets, and there are grounds for optimism. The proportion of female professors has increased, and currently stands at a little over 29 per cent.

University management
The rectorate consists of Rector Ole Petter Ottersen, Pro-Rector Ragnhild Henningsen and Vice-Rector Knut Fagri. Gunn-Elin Aa. Bjørnebøe holds the post of University Director, with Tove Kristin Karlsen as Assistant University Director.

The Board is chaired by the Rector and also includes external representatives appointed by the Ministry of Education and Research. In 2014 these were Idar Kreutzer, Anne-Marie Engel, Kjetil Trædal Thorsen and Anne Aasheim. Professors Karin Widerberg and Kristian Gundersen represent the permanent academic staff, while Doctoral Research Fellow Sofie A. E. Høgestøl represents the temporary academic staff and Ole Martin Nodenes the technical administrative staff. Knut Frydenlund and Tina Alvær are the student representatives on the UiO Board.

Our sincere thanks go to all UiO employees. We would particularly like to congratulate the Department of Administrative Support on receiving the Procurement award from the Norwegian Agency for Public Management and eGovernment for its work on digital procurement. The award is presented to promote good public procurement.
More education and research for the money

The University of Oslo was established in 1811 and is Norway’s oldest and largest knowledge institution. Its core tasks are education, research and dissemination/innovation.

UiO is the only university that has results above the national average for both measured dimensions: UiO scores 22 per cent above the average for publication points per academic man-year, and six per cent above the average in terms of the number of ECTS credits per academic man-year.

The measurement is two-dimensional and measures the productivity of Norwegian higher education institutions in terms of research (publication points) and education output (ECTS credits) per academic man-year.

The University of Oslo is above the national average with regard to the proportion of women in professorships. This has come about as a result of determined efforts and a steady growth over several years.

Research and student credit production as a function of academic staff input

The figure is to be understood as follows:
- Publication points per academic man-year are measured along the horizontal axis.
- ECTS credits per academic man-year are measured along the vertical axis.
- The position in the diagram of each university is based on its respective values in these two areas. The figures are an average for the last five years (2010–2014).
- The two grey lines represent average values for all institutions, amounting to 0.99 publication points per academic man-year and 11.26 ECTS credits per academic man-year.

Results

<table>
<thead>
<tr>
<th>RESULTS: 6 INDICATORS</th>
<th>2010</th>
<th>2011</th>
<th>2012</th>
<th>2013</th>
<th>2014</th>
</tr>
</thead>
<tbody>
<tr>
<td>Publication points per academic man-year</td>
<td>1.13</td>
<td>1.26</td>
<td>1.26</td>
<td>1.18</td>
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<tr>
<td>PhD degrees</td>
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<td>425</td>
<td>511</td>
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<td>519</td>
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<td>663,277</td>
<td>706,973</td>
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<td>721,037</td>
</tr>
<tr>
<td>ECTS credits per student (FTE)</td>
<td>37.9</td>
<td>43.2</td>
<td>42.8</td>
<td>42.9</td>
<td>42.2</td>
</tr>
<tr>
<td>Exchange students</td>
<td>1,732</td>
<td>1,702</td>
<td>1,804</td>
<td>1,860</td>
<td>1,873</td>
</tr>
</tbody>
</table>

UiO has identified six indicators that have been specifically followed up. The results are presented above.

The figures have been retrieved from the Database for Statistics on Higher Education (DBH) and are based on average values for 2010–2014. Academic man-years are defined slightly differently for research and education respectively, but are in accordance with the specifications of the Ministry of Education and Research. All the figures have been retrieved from DBH.
Innovation is defined as new or significantly improved goods, services, processes, forms of organization or marketing methods that are implemented for the benefit of society, including value creation*.

The definition not only includes contributions that secure economic growth and competitiveness, it also encompasses efforts of benefit to society – such as improvements in the public sector and non-profit organizations.

The Act relating to universities and university colleges states that the institutions shall "contribute to innovation and value creation on the basis of the results of research and academic and artistic development work". UiO is making systematic efforts to achieve even more innovation from its research activity.

* Based on the OECD’s definition of innovation in the Oslo Manual:
Innovation

Innovation is the university’s fourth public task.

UiO wishes to be engaged in matters of importance to society. Through active dialogue and cooperation, the university will contribute to the deployment of research-based knowledge to meet the great challenges facing society in the 21st century.

UiO will strengthen its contributions to innovation and knowledge transfer.

Inven2

The technology transfer company Inven2 is owned by UiO and Oslo University Hospital (OUS). In 2014, the company launched a record number of new patents and ideas for the second consecutive year, with a total of 47 new licence agreements. Inven2 received 260 new ideas and 113 patent applications, and five new companies have been established as a result of ideas and patents submitted to Inven2. UiO and OUS have jointly developed Inven2 to become the most effective innovation actor in the Nordic countries, and it is now Norway’s foremost innovation enterprise in terms of number of commercialization projects, income from commercialization and the number of projects on the market.

International experience shows that the success of a technology transfer company depends on it having a large research base. Inven2 can harvest ideas from much of the research that is conducted within Norway’s university and hospital sector, and has become a leader at the Nordic level.

The pool of new innovations increased by 20 per cent during 2014, and the number of commercialization projects grew by 35 per cent. Companies that have already started their activities raised more than NOK 650 million in private capital in 2014.

A high proportion of Inven2’s innovations originate from life sciences, which constitutes UiO’s largest single priority area. Another aim of the university is to encourage more innovations within renewable energy. Life sciences and biotechnology are probably the areas with the greatest potential for innovation at Norwegian research institutions.

In 2014, Inger Sandlie, Professor of Molecular Biology, was awarded Inven2’s first honorary award for submitting her innovation number 100. Professor Inger Sandlie at the Centre for Immune Regulation (CIR) at UiO conducts research into why the immune system attacks a person’s own body in immune-related diseases.

The Innovation Award 2014

Professor Øyvind Bruland received UiO’s Innovation Award together with the entrepreneur Roy Hartvig Larsen for their cancer project. UiO’s bronze medal team from the iGem competition in synthetic biology 2014. The team was composed of students from different subject areas and shows what can be achieved by working across traditional subject boundaries. Synthetic biology is a key technology for solving the challenges of the future.

UiO was awarded a new Centre for Research-based Innovation (SFI). The Centre for Scalable Data Access (SIRIUS) will develop new technologies to identify and process relevant information from the large and increasing volume of digital data.

 UiO’s bronze medal team from the iGem competition in synthetic biology 2014. The team was composed of students from different subject areas and shows what can be achieved by working across traditional subject boundaries. Synthetic biology is a key technology for solving the challenges of the future.

INNOVATION YEAR 2014

Inven2 achieves record results for 2013.

UiO and OsloTech arranged the innovative conference Cutting Edge, a conference for all those who are interested in innovation and in what the society of the future will look like.

UiO was awarded a new Centre for Research-based Innovation (SFI). The Centre for Scalable Data Access (SIRIUS) will develop new technologies to identify and process relevant information from the large and increasing volume of digital data.

Many students showed great interest in the innovation competition The Rector’s Challenge, and this year they submitted proposals on the subject of Innovations for the elderly.

UiO's Innovation Award together with the entrepreneur Roy Hartvig Larsen for their cancer project. UiO’s bronze medal team from the iGem competition in synthetic biology 2014. The team was composed of students from different subject areas and shows what can be achieved by working across traditional subject boundaries. Synthetic biology is a key technology for solving the challenges of the future.

UiO was awarded a new Centre for Research-based Innovation (SFI). The Centre for Scalable Data Access (SIRIUS) will develop new technologies to identify and process relevant information from the large and increasing volume of digital data.
High performance computing has been the driving force in most Centres of Excellence at UiO. This technology is already being marketed by Novozymes and is expected to be able to wait longer between each time they take the medicine, and be used to prolong the lifetime of medicines in the body. Patients will then be able to give lower doses. Lower doses in turn mean fewer adverse health problems. Small changes in gene material may give living organisms qualities that human beings can benefit from. The Ebola medicine ZMapp is one such medicine.

UiO’s team in iGEM 2014 received the bronze award in competition with 243 teams from all over the world. The UiO participants’ project was based on organizing bacteria by binding them together – a system they call “MicrOrganize”. The goal is to construct an “assembly line” of bacteria where different stages in a process take place in the desired sequence. Complex processes can thus be carried out, such as breaking down plastic. This knowledge can also be useful in the development of the biomachines of the future. The team from UiO was composed of seven students from different subject areas: Vilde Olsson, William Brynildsen and Hakon Høgset, master’s degree students in molecular biology; Izadora Lorrany, bachelor’s degree student in biochemistry and exchange student from Brazil; Sumuaya Yusuf, master’s degree student in pharmacy; Stian Lågstad, master’s degree student in mathematics and informatics, and Elina Melteig, master’s degree student in bionanotechnology.

New centre for research-based innovation

The Department of Informatics at UiO was allocated a new centre for research-based innovation. The centre, called the Centre for Scalable Data Access (SIRIUS), will develop new technologies to identify and process relevant information from the large and increasing volume of digital data. Research will build on and utilize technological innovations – for example within high performance computing and sky technology. Sirius is the university’s second centre for research-based innovation, and UiO has been collaborating on a further four of 17 such centres in 2014.

The Rector’s Challenge

This innovation competition, which is intended to raise interest for innovation and entrepreneurship among UiO’s students, had the theme “Innovation for the elderly”. The challenge for the students was to create an innovation for successful aging.

Most of the teams used current technology in new ways to create more efficient solutions for the elderly of the future. Ingvill Eide from the Department of Informatics was awarded the City of Oslo prize with her project “Those closest to me”. In addition, Arnab Majumdar’s group from the Centre for Entrepreneurship received the Rector’s award for a user-friendly mobile app which makes it simpler to do voluntary work, gives the municipality access to a large base of volunteers and makes it easier for voluntary organizations to organize their volunteers. Both awards were equivalent to a semester’s student loan. The Rector’s Challenge is a collaboration with the City of Oslo.
EDUCATION: UiO has approximately 27,000 students and offers a total of 342 programmes of study at bachelor’s, master’s and PhD level. The development of UiO’s programmes will take place in line with academic prioritizations and with emphasis on quality in research-based education, relevance to society and work life, and demand from the applicants.

Internationalization will be deployed proactively as an instrument to attain higher quality of education at UiO, and all programmes of study will contain international components. UiO will consider establishing joint degrees and other forms of educational collaboration with internationally leading universities within strong subject areas and subject areas with development potential.

UiO will make systematic efforts to increase the quality of its education through the use of new technology in teaching and for educational purposes.

UiO’s main contribution to innovation in society is through the education of academically strong candidates. A close interaction with working life and the business sector on the relevance of the various educational programmes is of major importance to strengthen candidates’ contribution to innovation.
The University of Oslo is Norway’s preferred study institution, with nearly three first-choice applicants for every available place. In 2014 more than 10 700 students were offered a place at UiO through the Norwegian Universities and Colleges Admission Services.

With 22 227 registered students, UiO is Norway’s largest university and can offer the broadest selection of subjects consisting of approximately 300 programmes of study.

In 2014 UiO received 1 873 exchange students. The quality of the education is the most important priority in UiO’s annual plan.

Candidate Survey

This is a survey carried out among those who graduated from all UiO’s eight faculties. It encompasses approximately 11 000 candidates at bachelor’s, master’s and PhD level who completed their education in the period 2011-2013.

A total of 4 533 graduates responded to the survey. The analysis shows that graduates from UiO are in demand in working life, and that most of them are satisfied with the academic outcome of their education.

The feedback they give through this survey will be used in UiO’s work on education quality. Here are the main conclusions from the Candidate Survey 2014:

- More than 8 out of 10 candidates are in work, and 8 out of 10 are satisfied with their current job
- 6 out of 10 hold full-time positions
- Close to 6 out of 10 say that UiO is near or very near to being their ideal educational institution

Students at UiO come into contact with employers earlier and they send fewer applications before they get their first job compared with the Candidate Survey from 2008. As many as 86 per cent of students say they are satisfied or very satisfied with the academic outcome of their education at UiO.

Study programme barometer

NOKUT launched the study programme barometer in February 2014. This service is based on a national survey of student satisfaction commissioned by the Ministry of Education and Research. The purpose is to enable applicants to compare education quality across educational institutions more easily.

UiO’s ambition is to be a leading international university. This entails setting high academic demands on our students, and students must set high demands on UiO. The study programme barometer shows that UiO students are generally very satisfied with their education: they find the programmes of study academically challenging and have the ambition to attain good results on their own behalf. The students give feedback that is included in continued academic follow-up and in innovative forms of teaching and assessment. One important feedback response is that UiO must place even more emphasis on following up each individual student.

Best Learning Environment Award

In 2014 the Best Learning Environment Award was presented to the Communicating History course represented by the Head of Studies John McNicol in the Department of Archaeology, Conservation and History at the Faculty of Humanities. The communication of history is a subject that students practise on various digital platforms, including ICT-based communication of history. The master’s degree course was taught for the first time in the spring semester 2012 and was established on the initiative of Professor Tor Egil Førland, Head of Studies at that time. During four semesters as many as 125 students have passed the course. They are given the opportunity to work on academic research questions that are geared towards communication, and have written feature articles and made podcasts. They have been very successful in getting these communication texts printed in the media. In 2014 the candidate survey resulted in an e-book on communicating history.

Student ‘shadows’ at the Department of Media and Communication

The Department of Media and Communication has launched a new scheme of student ‘shadows’, which is aimed at enabling its students to get in touch with media experts in working life so that they can access first-hand information about how they can use the knowledge they acquire at the Department.

New programme description for medicine

In 2014 the Faculty of Medicine celebrated its bicentenary and introduced a new programme description for the programme.
of professional study in medicine, entitled Oslo 2014. This incorporates the technological, demographic and medical advances that have taken place in recent decades, and includes a wide range of new forms of learning, e-learning and skills training. A mentoring scheme will be introduced for all students, and mentors will assist students and give them feedback. The scheme is meant to create a forum for medical students to reflect on their experiences and is in keeping with the university’s ambition to follow up students more rigorously.

**MOOCs and digital examinations**

UiO’s management has a strong commitment to the optimal exploitation of digital technology so that we can strengthen our programmes of education and the quality of education. Concerted efforts are being directed towards using Massive Open Online Courses (MOOCs) and digital examinations at the university. Some examples are given below.

Since autumn 2012, the Faculty of Law has carried out online examinations for 4 100 candidates. In spring 2014, online examinations were held for twelve courses while a total of 1 600 candidates were registered for such examinations. This is a result of the Faculty’s targeted work on online examinations since 2011. The goal is that all examinations at the Faculty should be taken electronically from 2015 onwards.

Online examinations have now been introduced for approximately half of the medical programme of study, and in one course at bachelor’s and master’s level. At present altogether 20 online examinations are held every year, and there is a strong desire to increase this number.

In spring 2014 the Department of Teacher Education and School Research held an online examination in practical-pedagogical education for altogether 300 student teachers. New types of tasks have been developed, including a video-taped case of a teaching situation filmed at one of UiO’s university schools, which the students have to assess.

In autumn 2014 the Centre for Development and the Environment began to develop a MOOC course entitled: “What Works? Success Stories in International Development”. This is one of the first international MOOC courses from the University of Oslo and Norway, and is given in collaboration with Stanford University, Chancellor College in Malawi and China Agricultural University in Beijing.

UiO offers “Flexphil”, an ICT-based programme for the examen philosophicum. FlexPhil was introduced to increase the completion rate for the subject and has had a very positive reception. Students and teachers really appreciate the use of modern technology as a supplement to traditional teaching. The university has also entered into a contract with FutureLearn, which will be our platform for offering free UiO courses to online students worldwide.

**A good learning environment**

In view of the importance of a good learning environment, in 2014 the Faculty of Mathematics and Natural Sciences invested heavily in education and the learning environment at the faculty. The project – Culture for Learning (InterArc) – is initially intended to run until the end of 2016. The main elements are a revision of the programmes of study, the development of the learning environment and the establishment of a robust climate for learning among faculty staff.

The aim of the project is to fulfil the faculty’s ambition of being one of Europe’s most attractive communities for education and research in mathematics, natural sciences and technology by 2025.

**Experience-based master’s degrees:**

**IT and Management**

The Department of Informatics offers a master’s degree course in IT and Management, which is tailor-made for those who wish to increase their knowledge of information technology, management, organizational development and strategy. The basic approach of the course is that to succeed in a complex daily work situation, technology and management must be seen in conjunction with each other.

The course is extremely popular and receives good feedback from participants. As of today approximately 250 students have taken one or more of the master’s degree courses. Roughly half of the students hold or have held management positions, and the majority is aiming for a management career in IT on completion of the master’s degree.

**University-school collaboration**

In autumn Hersleb and Blindern upper secondary schools opened in new and renovated buildings. The schools have a clear academic profile and a close association with UiO, thus strengthening the university’s collaboration with schools in Oslo.

The university has established a close cooperation with 20 schools that can call themselves ‘university schools’. The aim is to create good models for teaching practice for student teachers and to reinforce research and development in schools. ProFed - Centre for Professional Learning in Teacher Education - is a centre of excellence in education and an important innovator in this work.

UiO offers evening courses in mathematics for highly qualified pupils from upper secondary schools. These pupils demonstrate great commitment and achieve good results.

The Observatory at Solli has developed a programme in mathematics and natural sciences for pupils in Grade 7 of the lower secondary school. Approximately 450 pupils and over 120 school classes are invited here every year, and both pupils and teachers give very positive feedback.

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**HIGHLIGHTS**

**Studenterpublikasjoner**

**Historieformidling**

**Academic Year 2014**

**One Solberg visits the International Summer School**

The International Summer School was arranged in June and July. Prime Minister Erna Solberg is also the co-chair of the Millennium Development Goals (MDG) Advocacy Group, and presented the MDG Report 2014 at UiO’s international summer school. The international students took an active part in discussion of the MDGs. PM Solberg emphasized the importance of ensuring that the ongoing sustainable development goals which will build on the MDGs are specific and measurable. One of the challenges discussed was that approximately 56 million children still have no access to primary education.

**During her visit PM Solberg was presented with a copy of the UiO-Lancet Report on global governance for health, and UiO’s Rector pointed out how important it was to include health in all political decisions related to economic, social and development.**

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RESEARCH: UiO scores approximately 25 per cent above the average for all Norwegian universities, measured by publication points per academic man-year.

The three main interdisciplinary initiatives are life sciences, UiO Energy, and UiO Norden.

UiO has ten centres of excellence in research, and a total of 26 ERC grants at the end of 2014.

UiO shall promote groundbreaking research and be an attractive partner both nationally and internationally.
The University of Oslo shall promote groundbreaking research, education, innovation and dissemination, and be an attractive partner for international collaboration.

The university scores 25 per cent above the average for all Norwegian universities in terms of publication points per academic man-year. In total, UiO accounted for approximately 26 per cent of the total number of publication points earned in the sector in 2014. UiO is also the university in Norway with the highest proportion of funding from the Research Council of Norway and the EU, and has more ERC grants than the other Norwegian institutions combined. This shows that UiO scores highly whenever research quality is the decisive criterion.

PhD degrees

In 2014, a total of 518 PhD degrees were conferred at UiO. In recent years the faculties have made systematic efforts to improve throughput and rates of completion.

Three interdisciplinary priority areas

Life sciences

Life sciences include research on biological processes and phenomena encompassing the entire chain from natural sciences to medicine. Life-science research helps early detection of diseases, and over time drugs and therapies can be tailored to individual patients. In 2013, the Oslo life-science community was ranked among the 20 most promising research clusters in the world in the area of biotechnology (Genome Technology, 2008).

Today UiO hosts over 1,000 researchers and research assistants working towards a common goal: to improve our understanding of ourselves as humans and the life around us. We achieve this by bringing together innovative expertise from fields that include medicine, material technology and nanotechnology.

Life sciences represent the university’s biggest investment and our goal is to erect a separate life-sciences building for the research communities in the next few years. This is essential if we are to fully realize UiO’s potential in life sciences, and to put in place the infrastructure on which modern life-science projects depend.

In the long-term plan for research and higher education 2015–2024, the life sciences building at UiO was one of the two buildings prioritized.

UIO: Energy

UIO Energy facilitates interdisciplinary research, innovation and education in the field of energy, and thus addresses one of the most complex challenges of our era — the transition to a sustainable energy system.

The initiative was launched in 2012, and the first interdisciplinary master’s degree course in sustainable energy systems was held in autumn 2013.

UIO Nordic

The objective of ‘Unpacking the Nordic Model’ is to direct critical focus on the preconditions for the Nordic model and discuss its future and the perceptions of it that prevail internationally. The University Board formally adopted a decision in June 2014 to establish the initiative, which is hosted by the Faculty of Humanities. In February a brainstorming session was arranged in which 30 researchers from all faculties participated.

UIO in the top league for European research

Like the government, the University of Oslo has the ambition to increase its research revenues from the EU. In 2014, UiO received a total of 26 ERC grants, 12 of which are starting grants, 13 advanced grants and one a consolidator grant. ERC Starting Grants target up-and-coming young researchers who have the aim of becoming leading researchers, or are engaged in establishing their own independent research group. Two applicants from UiO reached the final in the Physical Sciences and Engineering category. It is extremely difficult to reach the final but both finalists had their applications accepted.

Simen Kvaal’s project: Simen Kvaal has received a grant for his project entitled “Bivariational Approximations in Quantum Mechanics and Applications to Quantum Chemistry” where the topic is the development of new methods of quantum chemistry computations at the
Research Year 2014

PhD candidates in Norway was launched in December. The European joint Doctorate in Law and Development (EDOLAD) programme will be a driver in the future for research into the relationship between law and development. There is a considerable need for competence in the field of law and development in developing countries and among aid donors. Now we will be able to provide a specialized PhD course in collaboration with the University of Edinburgh (UK), Tilburg University (the Netherlands), Tartu University (Estonia), Deusto University (Spain) and North-West University (South-Africa).

CEMO
The Faculty of Educational Sciences won an open national competition launched by the Ministry of Education and Research to establish the Centre for Educational Measurement at the University of Oslo (CEMO). The centre conducts research on quantitative methods associated with learning, and has been successful in its international recruitment. Research and publication activities are already at a very high level.

Research management
UiO has two programmes for research managers, as well as a new initiative for young research managers. These form part of UiO’s wide-ranging efforts to develop competence. The two development programmes and the initiative for young researchers received extremely positive feedback in the final report of the peer group published in December 2014.

Sensitive data processing
The University Center for Information Technology (UISIT) has developed a separate IT infrastructure for research on sensitive data “TSD – Services for sensitive data 2.0”. This solution establishes a very secure environment for services for collecting, storing, handling and analysing sensitive data. It is unique in Norway and the Nordic countries, and many universities and health trusts have shown great interest in using these services.

Institute of Theoretical Astrophysics in Science
The Institute of Theoretical Astrophysics has provided five articles in addition to the front cover photograph in the October issue of Science. This special issue of the prestigious research magazine published individual articles describing the use of photographs and spectra from IRIS, and presents the important steps made in understanding where the solar atmosphere acquires its energy. The articles help to demystify the sun. Having their findings presented in Science is an impressive recognition of the researchers’ work.

150th anniversary of fundamental law of chemistry
The Law of Mass Action celebrated its 150th anniversary in 2014. The chemist Peter Waaage and the mathematician Cato Maximilian Guldberg at UiO discovered the law of mass action in 1864. This provides a foundation for all chemical theory and is equally valid today as it was 150 years ago. It constitutes the basis of our thinking, whether we are working on producing a new drug or making a battery.

intersection of mathematics, physics and chemistry.

Ann-Cecilie Larsen's project
Ann-Cecilie Larsen has received a grant for her project entitled “Resonant Nuclear Gamma Decay and the Heavy-Element Nucleosynthesis”. Her studies will include how the elements are formed.

Centres of Excellence in Research
UiO has ten centres of excellence in research:
- Centre for Multilingualism in Society across the Lifespan
- Norwegian Centre for Mental Disorders Research
- Centre for the Study of the Legitimate Roles of the Judiciary in the Global Order
- Centre for Earth Evolution and Dynamics
- Centre for the Study of Equality, Social Organization and Performance
- Centre for the Study of Mind in Nature
- Centre for Ecological and Evolutionary Synthesis
- Centre for Cancer Biomedicine
- Centre for Immune Regulation
- Centre for Theoretical and Computational Chemistry (in conjunction with the Arctic University of Norway)

Launch of the first joint PhD programme in Norway
The first joint international doctorate for
DialogUe WitH SOCIETY: Dissemination is the university’s first public responsibility. Knowledge from UiO shall be disseminated to our surroundings, but universities must also invite and contribute to the public debate. Researchers and management help to ensure that UiO’s social mission is fulfilled through seminars, lectures, debates, festivals, exhibitions, museums, reports and daily media reports.

UiO’s students and staff are proud to be able to contribute to the general dissemination of education, nationally and internationally.

Ice sculptures marked the start of the Botanical Garden’s bicentenary.
Dialogue with society

Dissemination is one of the public responsibilities of universities. In 2014, the University of Oslo met this responsibility through a series of publications, lectures, events and contributions to public debate. Competence from UiO is in great demand by the media. Statistics show that approximately 50 UiO researchers appear in the media on a daily basis.

Bicentenary of the Norwegian Constitution

One of the goals of the bicentenary year was to bring the Constitution to life. The university played a major part in the events of 1814 and thus had an important role in the marking of the bicentenary of the Constitution.

In March UiO arranged a special Constitution week with a packed programme of contemporary and historical topics. Each day began with a “Constitution breakfast” with a focus on topics such as human rights, the Norwegian democracy, terror and other subjects. The academic programme ended every day with presentations of relevant books written by the university’s own researchers. The week was rounded off on 8 March with a seminar on the value of gender equality for society.

In addition, throughout the year UiO arranged open Saturday lectures in the Old Ceremonial Hall on topics linked to democracy, freedom and a changing society.

At the Museum of Cultural History the exhibition “For the Love of Freedom” attracted great attention. The photo-artist Kristin Halvorsen, Professor Svein Gullbekk curated the exhibition which explored, challenged and presented the concept of freedom at the crossroads of art and science. In June the museum arranged Norwegian history days and the ARENA conference “The Norwegian paradox” which directed critical self-scrutiny at our country in a national and international perspective and from an academic platform. UiO also hosted the ninth world congress on “Constitutional Challenges: Global and Local”.

The UiO Communication of Science Prize 2014 was awarded to law professors Ola Mestad and Dag Michalsen for their dissemination of knowledge about the Constitution on the occasion of the bicentenary. Professor Michalsen is the chief editor of the six-volume work “New Perspectives in Constitutional History 1814–2014”, which was the product of an interdisciplinary research project of the same name. Professor Mestad is one of the authors and also played an important role as chair of the research committee for the 2014 Constitution bicentenary.

New honorary doctors

A total of 17 new honorary doctors were appointed at the UiO’s annual celebrations on 2 September. Through the honorary doctors UiO is even closer linked to the international academic society.

The Human Rights Award

Every year the university confers UiO’s Human Rights Award. In 2014 it was awarded Italian author and journalist Fabrizio Gatti for his reports and books about migration in Europe. This was the first time the award was given to a journalist.

Fabrizio Gatti has acted as the special correspondent for the Italian newspaper L’Espresso and has published a number of articles about migration in Europe as well as about how illegal immigrants are exploited in agriculture in Italy.

Commission on Global Governance for Health

UiO and The Lancet have worked for two years on a report about global health. The report “The Political Origins of Health Inequality: Prospects for Change” was presented in February 2014 at a big launch event in the Old Ceremonial Hall. The Commission, chaired by UiO’s rector Ole Petter Ottersen, points out that far too often health is overshadowed by economic goals. Global health cannot be regarded as an isolated area but must be taken into account in political steering mechanisms and economic development projects. Inequities in health are
Webometrics is a ranking that gives some indication of how visible universities are on the internet. UiO is now ranked as number 13 in Europe and number 2 in the Nordic countries (after the University of Helsinki). In the global ranking UiO comes in 73rd place overall and 36th place when it comes to ‘openness’. The ranking includes 20,000 universities.

Making research accessible: language difficulties
The department of Linguistics and Scandi-navian Studies at the Faculty of Humanities has created a shortcut for those who have – or who work with – language difficulties. On the website språkverksted.no, people outside the research community at the Blindern campus can find updated information about both typical and atypical language development and about language difficulties in children as well as in adults. This dissemination project thus shows how linguistic research and development work can help people with language difficulties who often have problems finding relevant and updated information.

Other anniversaries
In addition to UiO’s strong participation in the bicentenary of the Constitution, a number of other anniversaries were celebrated in 2014.

Bicentenary of the Faculty of Medicine
The Faculty of Medicine celebrated its bicentenary with the slogan “We have thought about the future for two hundred years”. The celebrations included a series of open Saturday lectures where researchers at the faculty gave an inside view of a variety of health challenges. The research magazine Apollon also published a special issue on ground-breaking medical research.

Bicentenary of the Botanical Gardens
The Botanical Gardens celebrated its bicentenary with an extensive bicentenary programme. In January, 3,000 people turned up to view the ice sculptures and the ice labyrinth built to mark the commencement of the bicentenary. Almost all the MPs representing Oslo were present when the Botanical Gardens’ own ‘Oslo bench’ was unveiled in March. Professor emeritus Liv Borgen published her book on the Botanical Gardens from 1814–2014: History of a Garden, in which she outlines the garden’s significance for the development of the Norwegian Constitution.

50th anniversary of the Department of Social Anthropology
The department’s anniversary in 2014 – change and reminiscence – invited critical reflection on the place of social anthropology in the societal debate and on the development of the discipline. The Department of Anthropology has enjoyed a unique position throughout the last fifty years. It had the aim early on to become a broadly-oriented research environment with a focus on observing how people, society and culture are in a process of continuous change. Since the foundation of the department, more than 1,000 social anthropologists have graduated at second degree or master’s level as well as approximately 90 PhDs. The anniversary was celebrated by a photo exhibition as well as debates and an academic seminar.

South Africa’s 20th Anniversary of Freedom
South Africa is one of UiO’s most important cooperation partners. In autumn South Africa celebrated its 20th anniversary as a free and democratic country, and UiO made a significant contribution to the celebrations. Official cooperation between UiO and South Africa has existed since 1994–95, immediately after the fall of the apartheid regime.

UiO – visible and open
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ANNUAL CELEBRATION WITH NEW HONORARY DOCTORS

UiO celebrates its birthday on 2 September.

In 2014 UiO conferred 17 honorary doctoral degrees at the annual celebration.

Here is UiO’s management (in front) with Vice-Rector Knut Føgen, Pro-Rector Ragnhild Hagen, Pro-Rector Ole Petter Otterøy, University Director Gunn-Ellin Alm, Rector Ole Petter Otterøy, and Deputy University Director Tove Kristin Karlsen.

The new honorary doctors are:

Professor Niels Jørgen Cappelørn, Søren Kierkegaard Research Center Foundation, Denmark
Professor Lena Sisula-Tulokas, University of Helsinki, Finland
Editor Alan Rusbridger, The Guardian, England
Professor Address Makaula, Kamuzu College of Nursing, Malawi
Ms Aud Jebsen, Kristian Gerhard Jebsen Foundation, Norway
Professor Paul Edward Farmer, Harvard University, USA
Professor Kees van Hulst, Kamerun College Institute, Senegal
Professor Emeritus Deirdre Wilson, University College London, England
Author, Siri Hustvedt, PhD, USA
Director, Odile Eisenstein, PhD, Institute Charles Gerhardt Montpellier, France
Head of Research Fabiola Gianotti PhD, CERN, Switzerland
Professor Elke Tillack, University of Copenhagen, Denmark
Professor Bruce J. Aster, The Dana-Farber Institute, USA
Professor Geraldine Pratt, University of British Columbia, Canada
Director Bart van Wijnen PhD, UNICEF, The Netherlands
Professor Charles Helmke, University College London, England
Executive Secretary Alicia Barona Silvia, Economic Commission for Latin America and the Caribbean, Chile
More information on UiO

In 2014, the University of Oslo administered just over NOK 7 billion. Below we present selected figures from the accounts, and some of the results achieved in the past year.

UiO is the university in Norway with the highest proportion of funding from the Research Council of Norway and ERC. UiO demonstrates good and stable results in national and international competitions. This shows that the university scores well whenever research quality is the decisive criterion.

UiO is Norway’s largest university and can offer the broadest selection of subjects, consisting of approximately 200 programmes of study. The development of UiO’s programmes of study at bachelor’s, master’s and PhD level is in line with academic priorities with an emphasis on quality in research-based education, relevance for society and working-life and what applicants demand.

Students and results

<table>
<thead>
<tr>
<th>Students and graduates 2011</th>
<th>Bachelor / Master</th>
<th>PhD</th>
<th>Bachelor / Master</th>
<th>PhD</th>
<th>Bachelor / Master</th>
<th>PhD</th>
</tr>
</thead>
<tbody>
<tr>
<td>Faculty of Theology</td>
<td>277</td>
<td>29</td>
<td>39</td>
<td>3</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Faculty of Law</td>
<td>3 657</td>
<td>92</td>
<td>779</td>
<td>9</td>
<td>9</td>
<td>9</td>
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<tr>
<td>Faculty of Medicine</td>
<td>1 977</td>
<td>1 305</td>
<td>380</td>
<td>216</td>
<td>216</td>
<td>216</td>
</tr>
<tr>
<td>Faculty of Humanities</td>
<td>5 472</td>
<td>210</td>
<td>931</td>
<td>40</td>
<td>40</td>
<td>40</td>
</tr>
<tr>
<td>Faculty of Mathematics and Natural Sciences</td>
<td>4 681</td>
<td>777</td>
<td>873</td>
<td>148</td>
<td>148</td>
<td>148</td>
</tr>
<tr>
<td>Faculty of Dentistry</td>
<td>355</td>
<td>57</td>
<td>62</td>
<td>8</td>
<td>8</td>
<td>8</td>
</tr>
<tr>
<td>Faculty of Social Sciences</td>
<td>4 345</td>
<td>348</td>
<td>878</td>
<td>58</td>
<td>58</td>
<td>58</td>
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<tr>
<td>Faculty of Educational Sciences</td>
<td>3 087</td>
<td>131</td>
<td>817</td>
<td>28</td>
<td>28</td>
<td>28</td>
</tr>
<tr>
<td>Other</td>
<td>145</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>University of Oslo</td>
<td>23 996</td>
<td>3 018</td>
<td>4 816</td>
<td>531</td>
<td>531</td>
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</tr>
</tbody>
</table>

UiO’s nearly 27 000 students are distributed over eight faculties.

Subject areas and programmes of study

<table>
<thead>
<tr>
<th>Subject area</th>
<th>Study programmes (level)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aesthetic Studies and Musicology</td>
<td>Study programmes, total 190</td>
</tr>
<tr>
<td>Health and Medicine</td>
<td>One-year programmes 26</td>
</tr>
<tr>
<td>History, Philosophy and Cultural Studies</td>
<td>Bachelor programmes 57</td>
</tr>
<tr>
<td>Information Technology and Informatics</td>
<td>Master’s programmes and Integrated Master’s Degree 108</td>
</tr>
<tr>
<td>Law, Economics, Leadership and Administration</td>
<td></td>
</tr>
<tr>
<td>Teacher Training: Integrated Master’s Degree</td>
<td></td>
</tr>
<tr>
<td>Mathematics, Natural Sciences and Technology</td>
<td></td>
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<tr>
<td>Media Studies</td>
<td></td>
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<tr>
<td>Education</td>
<td></td>
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<tr>
<td>Religion and Theology</td>
<td></td>
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<tr>
<td>Social Sciences and Psychology</td>
<td></td>
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<tr>
<td>Language, Literature and Area Studies</td>
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</tbody>
</table>

Revenues

<table>
<thead>
<tr>
<th>Revenues (million NOK)</th>
<th>2010</th>
<th>2011</th>
<th>2012</th>
<th>2013</th>
<th>2014</th>
</tr>
</thead>
<tbody>
<tr>
<td>University of Oslo</td>
<td>6 118</td>
<td>6 642</td>
<td>6 651</td>
<td>6 776</td>
<td>7 064</td>
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<tr>
<td>Government grant</td>
<td>4 383</td>
<td>4 839</td>
<td>4 789</td>
<td>5 017</td>
<td>5 135</td>
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<tr>
<td>Research Council of Norway</td>
<td>623</td>
<td>703</td>
<td>674</td>
<td>742</td>
<td>721</td>
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<tr>
<td>European Union</td>
<td>50</td>
<td>80</td>
<td>81</td>
<td>124</td>
<td>111</td>
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<tr>
<td>Other competitive funding schemes</td>
<td>684</td>
<td>573</td>
<td>590</td>
<td>448</td>
<td>472</td>
</tr>
<tr>
<td>Other revenues</td>
<td>368</td>
<td>437</td>
<td>505</td>
<td>445</td>
<td>621</td>
</tr>
</tbody>
</table>

The table shows the development of UiO’s revenues from 2010 to 2014.

Funding

The table shows UiO’s proportion of the total results for the state university and university college sector.

The red line shows a kind of ‘normal result’ in light of the proportion represented by the government grant.