Researchers’ Report 2013
Country Profile:
Montenegro
1. National strategies
The table below presents key programmes and initiatives intended to implement the strategic objectives to train enough researchers to reach Montenegro’s R&D targets, to promote attractive working conditions and to address gender and dual career issues.

Table 1: National strategies

<table>
<thead>
<tr>
<th>Measure</th>
<th>Description</th>
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<tr>
<td>Amended Higher Education Act (2010, 2011)</td>
<td>The amended Higher Education Act (replacing that of 2003) introduced the following changes: the integrated university, the three-cycle educational system, the European Credit Transfer System (ECTS), the Diploma Supplement and the Council of Higher Education and Quality Assurance (internal and external). The amended Act also inserted changes related to the composition of the Council of Higher Education and its role. Finally, it also introduced the idea of State financing of study programmes proposed either by public or private HEIs if they are of public interest. Students at private HEIs can also apply for student loans.</td>
</tr>
</tbody>
</table>
| Amendment of the Law on Scientific Research Activities (2010) | The Law on Scientific Research Activities aims to promote integration with the ERA and EU framework programmes for research and development, and other international programmes, introduce international quality standards as well as increase R&D investment and promote networking of researchers at national and international levels. The new instruments introduced by the Law are:  
  - Programmes of public interest (14 programmes);  
  - Legal regulation for the first time of the possibility of achieving the status of the Centre of Excellence; and  
  - Facilitated conditions for licensing scientific research institutions (both private and public). |
| National Programme for the Integration of Montenegro into the European Union for the period of 2008-2012 (2008) | The National Programme for the Integration of Montenegro into the European Union (NPI) is the national plan for the adoption of the 'acquis communautaire', setting out short-term and medium-term priorities. For example, the Government is committed to reforming the statistical system in the field of Science and Research, expanding and developing the National Contact Point (NCP) network for the 7th Framework Programme of the European Union, promoting researchers' mobility, strengthening the links between research and business, as well as adopting a number of byelaws. |
  - Development of the scientific research community;  
  - Strengthening multilateral, regional and bilateral cooperation; and  
  - Cooperation between the scientific research community and the business sector.  
  The Strategy recognises ten priority research fields: energy, identity (e.g. cultural identification and research into Montenegrin cultural heritage), ICT, competitiveness of the national economy, medicine and health, science and education, new materials, products and services, sustainable development and tourism, agriculture and food and transport. |

Source: Deloitte

2. Women in the research profession
Some 50%1 of all researchers in Montenegro are women. The Plan for achievement of gender equality 2013–2016 foresees policy measures to promote gender equality, by engaging more women in science and to support campaigns for removing cultural and social barriers, and achieving equal opportunities in all research sectors.

The Higher Education Act (2010) states that Universities are autonomous in the election of their academic and scientific staff. This includes rectors, vice-rectors, deans, vice-deans and directors of research institutes. Based on the opinion of the Council for Higher Education, the Senate of the University adopts a set of criteria for the election. These apply equally to men and women.

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1 According to the data of the new statistical survey implemented by Statistical Office of Montenegro and Ministry of Science, there are in total 1699 researchers in Montenegro, of whom 852 are women
The Labor Law (2011) states that employed women are entitled to go on maternity leave for 45 days before giving birth and must stop work 28 days before giving birth. The total duration of maternity leave is one year.

Publicly-funded projects/grants allow women researchers to interrupt and extend their contract to go on maternity leave. As soon as the maternity leave comes to an end, the researcher has to continue the research.

3. Open, transparent and merit-based recruitment

Recruitment system

Higher education and research institutions in Montenegro enjoy full autonomy over the recruitment of all their staff.

The principles of (open and transparent) recruitment are defined in the Statutes of the three Universities, while the Senates of the Universities, based on the opinion of the Council for Higher Education, adopt the criteria for the election of scientific and academic staff.

Open recruitment in institutions

The University of Montenegro, the University “Mediterranean” and the University “Donja Gorica” publish calls for vacancies on their own web pages, in daily newspapers, while the University of Montenegro also publishes the vacancies in its own newsletter.

Table 2: Open recruitment in higher education and public research institutions

<table>
<thead>
<tr>
<th>Do institutions in the country currently have policies to ...?</th>
<th>Yes/No</th>
<th>Description</th>
</tr>
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<tbody>
<tr>
<td>– publish job vacancies on relevant national online platforms</td>
<td>No</td>
<td>However, it is considered good practice.</td>
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<tr>
<td>– publish job vacancies on relevant Europe-wide online platforms (e.g. EURAXESS)</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>– publish job vacancies in English</td>
<td>No</td>
<td></td>
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<tr>
<td>– systematically establish selection panels</td>
<td>Yes</td>
<td>The establishment of the selection panels is defined in the Statutes of the Universities.</td>
</tr>
<tr>
<td>– establish clear rules for the composition of selection panels (e.g. number and role of members, inclusion of foreign experts, gender balance, etc.)</td>
<td>Yes</td>
<td>However, the involvement of foreign experts is not compulsory.</td>
</tr>
<tr>
<td>– publish the composition of a selection panel (obliging the recruiting institution) with job advert</td>
<td>Yes</td>
<td>The composition of a selection panel is published in the monthly Bulletin of the Universities.</td>
</tr>
<tr>
<td>– publish the selection criteria together with job advert</td>
<td>No</td>
<td>The criteria are available online in the Act: Criteria for the election to scientific and academic ranks.</td>
</tr>
<tr>
<td>– regulate a minimum time period between vacancy publication and the deadline for applying</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>– place the burden of proof on the employer to prove that the recruitment procedure was open and transparent</td>
<td>Yes</td>
<td>The Statutes of the Universities call for the publication of the complete report of the selection committee in the Universities’ Bulletins.</td>
</tr>
<tr>
<td>– offer applicants the right to receive adequate feedback</td>
<td>No</td>
<td>However, it is considered good practice.</td>
</tr>
<tr>
<td>– offer applicants the right to appeal</td>
<td>Yes</td>
<td>Applicants are offered the right to appeal, in accordance with the General Administration Law (2011).</td>
</tr>
</tbody>
</table>

Source: Deloitte

EURAXESS Services Network

EURAXESS Montenegro promotes and facilitates researchers’ mobility. The University of Montenegro acts as the national EURAXESS Bridgehead organisation.

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2 Data referring to the University of Montenegro
4. Education and training

Measures to attract and train people to become researchers

In 2011, Montenegro there were 1699 researchers (1546 full-time and 153 part-time and external associates) employed in the country’s higher education, business enterprise, government and private non-profit sectors.4

In order to attract young people to pursue a scientific career, the Government has developed a number of activities and programmes, targeting pupils from elementary schools through to university students, by engaging them in the regular teaching programmes as well as in national competitions on different topics, camps and visits to great European and world research institutions.

The number of students enrolled in tertiary education at the three universities and other Higher Education institutions increased from 20 490 in the academic year 2008-09 to 22 227 in 2011-125.

Doctoral graduates by gender

In 2011, there were 11 doctoral graduates in Montenegro: seven men and four women6.

Funding of doctoral candidates

The Ministry of Education publishes an annual Call for co-financing Master and PhD Studies in Montenegro and abroad. The Ministry has supported 14 doctoral candidates financially during the academic year 2011-12.

The Ministry of Science also publishes an annual Call for co-financing scientific research activities and supporting Master’s and PhD’s studies. The Ministry has supported 42 doctoral graduates financially in the period 2011-12.

Measures to increase the quality of doctoral training

In Montenegro, universities are responsible for the development of high standards of teaching and learning as well as for the career development of students.

Higher Education Institutions (HEIs) continuously conduct self-evaluations, and evaluate and assess the quality of their courses and working conditions. Self-evaluation must involve stakeholders from the institution’s management, academic staff and students (at faculty level all students are involved; at university level, participation is organised via student representatives)7.

The Ministry of Science of Montenegro plays a significant role in improving the quality of doctoral studies, through national Calls for national scientific research projects, i.e. particularly by supporting the involvement of PhD students in these projects.

5. Working conditions

Measures to improve researchers’ funding opportunities

The Ministry of Science funds national, bilateral and multilateral scientific and research projects and supports the involvement of the Montenegrin scientific research community in international programmes, such as FP7, COST, EUREKA, IAEA, JRC, UNESCO, NATO SPS etc., as well as international initiatives (Danube Strategy, CEI).

Remuneration

For information, see the new country profile on remuneration of researchers from the MORE2 study (forthcoming, on the EURAXESS website).

‘European Charter for Researchers’ & ‘Code of Conduct for the Recruitment of Researchers’

The ‘Charter & Code’ has been signed by all three universities in Montenegro. The University of Montenegro has applied to obtain the status of HR Excellence and in 2013 will launch the process of designing its internal HR strategy and procedures.

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4 Source: Statistical Office of Montenegro
5 Ibid
6 Ibid
7 Ibid
**Autonomy of institutions**

The Constitution of Montenegro ("Official Gazette of Montenegro", no 01/07) guarantees the autonomy of scientific research institutions (Article 75) and freedom of scientific research (Article 76).

In addition, the Law on Scientific Research Activities ("Official Gazette of Montenegro", no 80/10) stipulates that the freedom and autonomy of scientific work are independent, morally and intellectually, of every political authority and economic power and to be performed with respect for ethical standards and principles of scientific truth and critical thinking (Article 7).

The Law on Higher Education (2010) states that “a university is an autonomous institution that, in performing its activities, combines educational, scientific research and artistic work, as the components of the unique process of higher education” (Article 36).

**Shift from core to project-based funding**

Research activity in Montenegro is primarily conducted by licensed scientific research institutions registered in the Register of the Ministry of Science; 48 universities, institutes, faculties and companies.

Since the vast majority of public research institutions belong to the Higher Education sector, researchers employed in these institutions are paid from the core University budget (covering teaching, research and administration). There are only a very few researchers who are paid from projects (national or international). The current Higher Education, Research and Innovation for Competitiveness (HERIC) project financed by the World Bank will provide full-time project based employment and higher remuneration to young researchers.

**Social security benefits (sickness, unemployment, old-age)**

Social security issues are determined by the general Labour Law. All employed researchers (full time, or part time, paid from core or project funding) are entitled to receive full social benefits.

**6. Collaboration between academia and industry**

In the last few years, the Government of Montenegro has initiated the establishment of links between national SMEs, and scientific and research institutions. The Action Plan on Increasing Researchers’ Mobility (2011-12) sets the following goals:
- Strengthening the basis for outgoing mobility;
- Improvement of incoming mobility; and
- Strengthening inter-sectoral mobility.

In 2011, the Ministry of Science published a Call for co-financing national scientific research projects in priority research areas (cycle 2012-2015), as a result of which 72 applied research projects and two development research projects received funding.

In 2012, Montenegro became a member of EUREKA and is currently involved in two ongoing projects.

There is also a possibility of cooperation between scientific institutions and companies through joint bilateral calls. Specifically, there are two cooperation projects between a scientific institution from Montenegro and a company from Slovenia (the first implemented in the period 2010/2011, the second implemented in the period 2012/2013).

Two more activities are planned for the forthcoming period:
- The establishment of the first Scientific Technological Park in Montenegro which is expected to stimulate the development of knowledge-based entrepreneurship by integrating and connecting small and medium-sized enterprises that will cooperate with scientific research institutions to facilitate technology transfer, produce innovations and foster economic development; and
- The implementation of a grant scheme for knowledge transfer between academic and private sector is planned with the Operational Programme for the 4th Instrument for Pre-Accession Assistance.

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8 Ibid
7. Mobility and international attractiveness

Measures aimed at attracting and retaining ‘leading’ national, EU and third country researchers

Montenegro has been taking action in many ways to improve and increase the mobility of researchers through: research projects with researchers from abroad; bilateral cooperation with 11 countries; visits and lectures of researchers from abroad during Open Days that the Ministry of Science organises annually, etc.

Inward mobility (funding)

Since the 1990s, Montenegro has been suffering from a brain drain. The Government has launched some measures to attract young researchers, in particular PhD students, to the University of Montenegro, such as the adoption of the Revision of the Strategy on Scientific and Research Activity (2012-2016).

Researchers’ mobility is the responsibility of the Ministry of Science and is implemented by the Ministry’s Department for Science, Research and Technological Development and the Department for Higher Education. The University of Montenegro, through its Office for International Cooperation, is in charge of providing administrative support for mobility opportunities.

Montenegro has signed 11 and implemented six bilateral agreements (with Austria, Bosnia and Herzegovina, PR of China, Croatia, former Yugoslav Republic of Macedonia and Slovenia) for short-term stays (up to 14 days) and long-term stays (from 1 to 3 months). The total number of bilateral financed projects to date is 87; five projects with Austria in 2011-12 and 11 projects in 2013-14; 15 projects with Bosnia and Herzegovina in 2012-13; six projects with PR China for the forthcoming period 2013-14; 12 projects with Croatia in 2011-12; and 14 projects with Slovenia over the period 2010-11 and 24 projects during 2012-13.

Outbound mobility

The Government funds doctoral students to spend at least one semester at a foreign university during their studies. In addition, PhD graduates, especially those aged 27-34, have the opportunity of spending up to one semester working at a European university on ‘unpaid leave’. Universities encourage mobility, and provide mobility opportunities up to one year. However, special approval (from the Rector or the Governing Board) is needed for stays of more than 30 days within a year.

The Ministry of Science also stimulates outbound mobility by offering PhD students, whose mentors are from abroad, a stay abroad to carry out part of their research in the institutions of their mentors. Moreover, the Ministry of Science finances study visits for scientific training abroad; participation in scientific conferences abroad; and co-financing of Master and PhD studies abroad.

Another step towards increasing outbound mobility was the visa liberalisation for Montenegrin citizens, i.e. abolition of visas for the Schengen area (Recommendation of the EC to the Council of Ministers EU, July 2009)\(^{9}\).

Access to cross-border grants

Montenegro made use of EU grants through its participation in the CARDS programme during the period 1998-2006 (over EUR 277 million).

In December 2010, Montenegro became a candidate Country, enabling it to have access to IPA funds allocated under the IPA Assistance in its entirety.

Since July 1, 2012, the Ministry of Science of Montenegro has been a partner in the “Mechanism for fostering innovation in South East Europe – FINNO” project (component II-Cross border cooperation) with a total budget of EUR 79791.

Finally, the Ministry of Science participates in the activities of the Danube Steering Group for Priority Area 7: Higher education, research and ICT, which opens up cooperation opportunities within Danube Region.

\(^9\) Ibid