Career and Employment Survey for Doctoral Graduates 2013

Doctoral Graduates of 2010-2011
CHEM, ENG, ELEC, SCI

Career Services 28.1.2014
Background Information (1/2)

• A nationwide Career and Employment Survey, which is conducted as a collaboration between Finnish Universities.

• The main purpose of the study is to examine the employment situation of graduated doctors, how they are placed on the labour market and how satisfied they are with their education and career.

• The information is used to develop the doctoral education.

• More information about the study (mainly in Finnish) can be found on the following web page: http://www.aarresaari.net/uraseuranta/index.htm
Background Information (2/2)

• 290 persons graduated with a Doctor of Science (Technology) or Doctor of Philosophy degree in 2010-2011.

• Address found to 273 graduates (94.1%) and 133 of them answered to the questionnaire (response rate 48.7%).

• 75% of the respondents were men and 25% women.

• 41% ENG, 50% CHEM, 48.3% SCI and 52.6% ELEC graduates responded to the survey.
Doctoral Studies
Main Reason for Starting Doctoral Studies

- I was interested in doing research 24%
- Professional development 23%
- Natural continuation of earlier studies or work 14%
- I wanted to conduct research on a specific topic 7%
- I thought I would get a better position in the labour market 6%
- Other reason 5%
- Encouragement of personnel at university faculty 5%
- I wanted to be formally qualified for certain assignments 4%
- At the moment I felt I didn't have another way to get a job 4%
- Encouragement by employer 3%
- A doctoral degree was my goal when I began my basic studies 2%
- I thought it would be easier to get a job 2%
- Coincidence 2%

N = 133
Financing of Doctoral Studies

- I was employed in research and/or teaching at a university: 62%
- I received a scholarship or grant: 50%
- I received funding through a project that was not administered by the Academy of Finland: 28%
- I received funding through a graduate school funded by the Academy of Finland/Ministry of Education and Culture: 26%
- I received a funding through a project administered by the Academy of Finland: 20%
- I was employed outside the university: 20%
- I received funding through another graduate school: 17%
- Other: 10%
- I was employed in research and/or teaching at a university of applied sciences or a research organization other than…: 9%
- I was employed in a position that does not entail research or teaching at the university: 1%

N=322
Most Important Source of Funding

- I was employed in research and/or teaching at a university: 31%
- I received funding through a graduate school funded by the Academy of Finland/Ministry of Education and Culture: 16%
- I was employed outside the university: 13%
- I received funding through a project that was not administered by the Academy of Finland: 11%
- I received a scholarship or grant: 7%
- I was employed in research and/or teaching at a university of applied sciences or a research organization other than university: 7%
- I received funding through another graduate school: 6%
- Other: 5%
- I received a funding through a project administered by the Academy of Finland: 5%

N=132
Labour Market Situation and Employment
## Labour Market Situation and Employment

### Labour Market Situation 6 months before completing PhD degree

<table>
<thead>
<tr>
<th>Labour market situation</th>
<th>6 months before completing PhD degree</th>
<th>6 months after completing PhD degree</th>
<th>In June 2013</th>
</tr>
</thead>
<tbody>
<tr>
<td>Employed*</td>
<td>88</td>
<td>93</td>
<td>92</td>
</tr>
<tr>
<td>On research scholarship</td>
<td>6</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Unemployed **</td>
<td>2</td>
<td>1</td>
<td>2</td>
</tr>
<tr>
<td>Full time study or Family leave</td>
<td>5</td>
<td>4</td>
<td>3</td>
</tr>
<tr>
<td>Other situation</td>
<td>1</td>
<td>1</td>
<td>2</td>
</tr>
</tbody>
</table>

*Includes regular full time job, fixed term full time job, part time job and working as an independent entrepreneur / freelancer

**Includes being unemployed, being employed through state aid and labour market training or similar
Employment Situation at the Time of Survey

- regular full-time job: 64%
- fixed term full-time job: 25%
- independent entrepreneur/freelancer: 2%
- On research scholarship: 2%
- Unemployed: 2%
- Family leave (employed): 2%
- Family leave (unemployed): 1%
- Other: 2%

N=133
Unemployment After Doctoral Studies

67% of those who have been unemployed, the unemployment period has been under 6 months

N=132

- Has not been unemployed: 93%
- Has been unemployed: 7%
Principal Employer (current)

- University 28%
- Private enterprise, more than 249 employees 27%
- Government 19%
- Association, foundation or like, institution or community governed by public law 4%
- Private enterprise or a government-owned corporation, 50-249 employees 6%
- Private enterprise or a government-owned corporation, less than 50 employees 7%
- Municipality, federation of municipalities or municipal enterprise 4%
- Polytechnic 3%
- Government, unincorporated government enterprise 19%
- Private enterprise or a government-owned corporation, more than 249 employees 27%
- Independent entrepreneur, self-employed or freelancer 1%
- Other 2%

N=127

Aalto University
Which Alternative Characterises Your Principal Job Most Accurately?

Respondents were able to choose multiple answers (N=322)
Was a Doctoral Degree a Prerequisite for Your Current Job?

- Yes, it was a competence requirement: 31%
- Yes, but it was not a competence requirement: 18%
- No: 45%
- Can not say: 6%

N=129
Does Your Current Job Correspond to Your Academic Qualifications?

- My job corresponds to my qualifications: 71%
- The level of job demands is slightly lower than my qualifications: 22%
- The level of job demands is considerably lower than my qualifications: 4%
- Cannot say: 4%

N=130
Salary in April 2013
Including regular bonuses, taxable values of natural benefits and overtime compensation
Salaries in euros/month. Average salary 4471 euros/month

N = 118
Significance of Doctoral Degree in Working Life
After Having Completed a Doctoral Degree...

- My salary has increased: 52%
- My job assignments are more demanding: 64%
- My job assignments are more interesting: 56%
- I have gained a better position: 45%
- I have received a job from a new employer: 45%
- My position at the labour market is better: 39%
Development of Doctoral Education
Rate the Counselling Received During Doctoral Studies

1 = bad, very much to improve; 2 = weak, much to improve; 3 = decent, fairly much to improve; 4 = fairly good, some to improve; 5 = good, only a little to improve; 6 = excellent, nothing to improve
Comparison of numeric values about Counselling Received During Doctoral Studies

1 = bad, very much to improve; 2 = weak, much to improve; 3 = decent, fairly much to improve; 4 = fairly good, some to improve; 5 = good, only a little to improve; 6 = excellent, nothing to improve

<table>
<thead>
<tr>
<th>Development of Doctoral Education</th>
<th>2013</th>
<th>2011</th>
<th>2009</th>
</tr>
</thead>
<tbody>
<tr>
<td>Quality of study counselling</td>
<td>3,6</td>
<td>3,6</td>
<td>3,6</td>
</tr>
<tr>
<td>Availability of study counselling</td>
<td>3,5</td>
<td>3,5</td>
<td>3,5</td>
</tr>
<tr>
<td>Amount of study counselling</td>
<td>3,4</td>
<td>3,4</td>
<td>3,4</td>
</tr>
<tr>
<td>Quality of counselling related to the work with the doctoral thesis</td>
<td>4,1</td>
<td>4</td>
<td>4,1</td>
</tr>
<tr>
<td>Availability of counselling related to the work with the doctoral thesis</td>
<td>4</td>
<td>4</td>
<td>3,9</td>
</tr>
<tr>
<td>Amount of counselling related to the work with the doctoral thesis</td>
<td>3,8</td>
<td>3,9</td>
<td>3,7</td>
</tr>
<tr>
<td>Counsellor's scientific competence in your field of study</td>
<td>4,7</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Counsellor's pedagogic competence</td>
<td>4</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Peer group, support and community</td>
<td>4,1</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Comparison of Counselling

Quality of study counselling
Availability of study counselling
Amount of study counselling
Quality of counselling related to the work with the doctoral thesis
Availability of counselling related to the work with the doctoral thesis
Amount of counselling related to the work with the doctoral thesis
Counsellor's scientific competence in your field of study
Counsellor's pedagogic competence
Peer group, support and community

blue = 2013
red=2011
green=2009
How Much Emphasis Should Be Placed on the Acquisition of the Following Competencies When Planning Doctoral Education? (1 = None, 2 = Only a little, 3 = Some, 4 = Quite a lot, 5 = A lot, 6 = A great deal)

- Academic writing: 5.4
- Presentation skills: 5.0
- Interpersonal skills: 4.9
- International contacts: 4.9
- Project management skills: 4.5
- Obtainment of funding: 4.5
- Career planning: 4.0
- Leadership: 3.9
- Commercialization of research results: 3.8
- ICT skills: 3.8
- Opetustaidot: 3.7
- Competence in intellectual property rights: 3.6
- Business competence: 3.5
- Job hunting skills: 3.4
- Entrepreneurship: 3.3
Satisfaction to doctoral degree

(1 = None, 2 = Only a little, 3 = Some, 4 = Quite a lot, 5 = A lot, 6 = A great deal)
Satisfaction to doctoral degree
Comparison of given rates
(1 = None, 2 = Only a little, 3 = Some, 4 = Quite a lot, 5 = A lot, 6 = A great deal)