The 1st European employment survey for chemists & chemical engineers (EESC1) and an outlook for EESC2

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1. The Complete Report
2. Responses and Language
3. Qualification and Job Market
4. Salaries
The excellent acceptance of EESC1 indicates the need of such surveys and supports EuCheMS' role as successful political player.
Proposals for the 2nd Survey

- EuCheMS/ACS project in 2017
- ECTN is responsible partner, EC, Cefic participate actively
- Simplified online questionnaire, common core plus special pages
- Translation by national societies
- National societies approach their members directly (>5% response)
1. Responses

Responses stored in anonymous form

- 26% of all responses from Italy
- 23% of all responses from UK

Red squares: Participating societies

→ not evaluated individually (statistical reasons)

Country

... Thanks to the G10 Societies!

EuCheMS GA Seville, 10.-11.09.16
Country-specific Job Market

Employer Sector
- Industry, manufacturing
- Research institution
- Higher education
- Industry, non-manufacturing
- Nat. government / public serv.
- Self-employed
- Secondary school
- Publishing company
- Vocational school

G10 Country
Graduates of the last 15 years

EuCheMS GA Seville, 10.-11.09.16
How to activate your membership?

Based on EuCheMS Membership data 2013

Below the expected level
EESC2 Questionnaire in English

Percentage of responses in English even though the native language was available:

National Society may translate into local language.
Deadline: 4 weeks after approval of the questionnaire.
Joint Survey to Ensure Data Comparability

Qualification of Chemists in Europe:

<table>
<thead>
<tr>
<th>Shares of Females</th>
<th>All grads</th>
<th>Grads 2009</th>
<th>ACS 2009</th>
</tr>
</thead>
<tbody>
<tr>
<td>M.Sc. or equ.</td>
<td>44%</td>
<td>38%</td>
<td>48%</td>
</tr>
<tr>
<td>Ph.D. or equ.</td>
<td>37%</td>
<td>48%</td>
<td>39%</td>
</tr>
</tbody>
</table>

EuCheMS GA Seville, 10.-11.09.16
Diversity higher in Europe

Ph.D. Median Salaries and GDP

Full time, perm. contract, >3 years experience

EuCheMS GA Seville, 10.-11.09.16
Draft Questionnaire for EESC2 on the Way

Protected: EESC2 - Employment Survey for European Chemists

This survey will provide details about the current employment situation for chemists and chemical engineers across Europe and about required competencies for the post-secondary educational system. Your participation will contribute to the acquisition of quantitative data about job market needs, thus facilitating successful careers for the graduates.

The project is supported by the European Association of Chemical and Molecular Sciences (EuCheMS), by the Joint Research Centre of the European Commission and by the European Platform on the Future of Science Policy. It is sponsored by the European Mentoring & Recruiting Network Association (EMRNA).

You have been invited to participate in this survey by your National Chemical Society. No personal data have been disclosed. Please complete all fields of the short questionnaire. All your responses will be made anonymous. Your e-mail address is only required to prevent the survey from spoiling.

If you want to request evaluation results of this employment survey — including salary information — by e-mail to the address submitted on page 1, please tick the corresponding box in the questionnaire.

This questionnaire is available in all national languages of the participating societies. You may freely choose your preferred language, in order to avoid any incompatibility between various national terms (programmes, certificates, degrees). We use international classifications (I/CTEDO, D.D.).

If you have any questions regarding this questionnaire, please contact the delegate of your National Chemical Society (name of the delegate: contact e-mail of the delegate).

This survey will be open between March 1st - 21st, 2017.

START

Entries: white identical for ACS and EuCheMS; green minor differences; red: only EuCheMS; blue: copied from ACS; extra entries for ACS not indicated here.
Many PhD students enjoy the intellectual freedom of a PhD for a few years and then successfully move on to other things. But a lot of students want more preparation and training for that step - such as building skills in management, budgeting or negotiation.

There may be too many PhD graduates for academia, but there is plenty of demand for highly educated, scientifically minded workers elsewhere.

## Emphasis on PhDs and Postdocs - II

Do you feel that you have enough information about the following career options:

<table>
<thead>
<tr>
<th>Career Option</th>
<th>Information Availability</th>
</tr>
</thead>
<tbody>
<tr>
<td>University faculty with an emphasis on research or development</td>
<td>Severe lack of information</td>
</tr>
<tr>
<td>University faculty with an emphasis on teaching</td>
<td>Could use more information</td>
</tr>
<tr>
<td>Government or research institute with an emphasis on research or development</td>
<td>Enough information</td>
</tr>
<tr>
<td>Startup firm with an emphasis on research or development</td>
<td></td>
</tr>
<tr>
<td>Established firm with an emphasis on research or development</td>
<td></td>
</tr>
<tr>
<td>“Alternative” non-research careers</td>
<td></td>
</tr>
</tbody>
</table>
### Emphasis on PhDs and Postdocs - III

**Assuming you had the choice, which of the following would be your most preferred career?**

<table>
<thead>
<tr>
<th></th>
<th>University faculty with an emphasis on research or development</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>University faculty with an emphasis on teaching</td>
</tr>
<tr>
<td></td>
<td>Government or research institute with an emphasis on research or development</td>
</tr>
<tr>
<td></td>
<td>Startup firm with an emphasis on research or development</td>
</tr>
<tr>
<td></td>
<td>Established firm with an emphasis on research or development</td>
</tr>
<tr>
<td></td>
<td>Other career</td>
</tr>
</tbody>
</table>
### Emphasis on PhDs and Postdocs - IV

In your lab/department, to what extent are Ph.D.s encouraged or discouraged to pursue a career as university faculty with an emphasis on research or development

<table>
<thead>
<tr>
<th></th>
<th>Strongly discouraged</th>
<th>Somewhat discouraged</th>
<th>Neutral</th>
<th>Somewhat encouraged</th>
<th>Strongly encouraged</th>
</tr>
</thead>
</table>
After completing your current degree, which of the following best describes your future plans?

<table>
<thead>
<tr>
<th>Option</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stay in the EU permanently</td>
</tr>
<tr>
<td>Work in the EU for a few years and then move back to my home country</td>
</tr>
<tr>
<td>Move back to home country right away</td>
</tr>
<tr>
<td>Move to some other country</td>
</tr>
<tr>
<td>Don’t know yet</td>
</tr>
</tbody>
</table>
To Do List

- Contact e-mail for survey (Sept 2016)
- Translation into local language(s)? (Oct 2016)
- Edition / Approval of the Joint Questionnaire (Oct / Nov 2016)
- President or General Director of Member Society invites personally (Jan 2017, >5% response)
- Online Questionnaire open (March 2017)