Alumni Survey – Trends in Employment

Data come from the survey that was realised in June 2019. An online questionnaire was sent to the ME3 Alumni from 2007-2009 to 2014-2016 editions which represents a total of 183 ME3 graduates. 37 answers (over 183) were received which represented 20.2% of the alumni from those editions. For Questions 10-19, there were 36 answers received.

Questions asked in these surveys, followed by a summary of answers are presented below.

1. Are you a male or female?

   ![Male and Female Pie Chart]

   Data collected from alumni from editions 2007-2009 to 2014-2016 (37 answers out of 183 ME3 graduates).

2. Which ME3 Edition did you participate to?

   ![Cohort Graph]

   Data collected from alumni from editions 2007-2009 to 2014-2016 (37 answers out of 183 ME3 graduates).
3. **What is your country of origin and which country are you currently living in?**

Data collected from alumni from editions 2007-2009 to 2014-2016 (37 answers out of 183 ME3 graduates).

4. **What is your mother tongue and the language you usually use at work?**

Data collected from alumni from editions 2007-2009 to 2014-2016 (37 answers out of 183 ME3 graduates).

5. **Which activity sector(s) are you currently working in?**

*Other: Healthcare, Utility company, Computer Science, Mechanical engineering, Education, Oil & gas, Construction.*

Data collected from alumni from editions 2007-2009 to 2014-2016 (37 answers out of 183 ME3 graduates).
6. What is your current position?

*Manager: Manager Research, Business Development Manager, Competence Development Manager, Coordinator

Other: Chief of Staff/Advisor, Technical Advisor, Investment Associate, Sales Engineer, Analyst

7. Are you satisfied with your position?

95% of the interviewed people are satisfied with their current position. The Data was collected from alumni from editions 2007-2009 to 2014-2016 (37 answers out of 183 ME3 graduates).

8. How long have you been working in your current position?

Data collected from alumni from editions 2007-2009 to 2014-2016 (37 answers out of 183 ME3 graduates).

9. Did you/will you get another degree after graduating from ME3?

<table>
<thead>
<tr>
<th>Yes</th>
<th>27 % (10 alumni out of 37 answers, 1 for both another master and a PhD)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>• PhD: 50% (5 alumni) in Environmental Sciences, Computer Science, in Business Administration, and Business Engineering, Management and Strategy</td>
</tr>
<tr>
<td></td>
<td>• MBA: 10% (1 Alumnus)</td>
</tr>
<tr>
<td></td>
<td>• Other Masters: 20% (2 alumni) in Business Engineering and in Finance</td>
</tr>
<tr>
<td></td>
<td>• Other trainings 30% (3 alumni) with a Specialization in Data Science, Chartered Financial Analyst Credential (CFA), Postgraduate in Project Finance.</td>
</tr>
</tbody>
</table>

| No  | 73 % |

Data collected from alumni from editions 2007-2009 to 2014-2016 (37 answers out of 183 ME3 graduates).
10. With your experience, which evolutions you perceive in jobs of the future related to energy and environment?

The most frequent evolutions mentioned in the answers are presented below:

*Digitalization: IT Applications, Big Data, Data Analysis, Machine Learning, Programming, Use of Drones, Smart Energy Monitoring.

**Finance: Sustainable Finance, Business Development, Management.

Other: New Energy Policies, Extended Producer Responsibility System, Support for new Energy Technologies, More focus on air Quality, Less opportunities in Oil and Gas. 33 Answers considered out of 36 interviewed people.

11. In your company/organization, which sectors offer jobs? (if any)

2. Solar PV, Marine, Biomass, Energy Storage
3. Climate Change/GHG Emissions, Air Quality, Environmental Regulation, Water, Flood Risk
4. Project Engineers, Environmental Engineers, Battery Engineers, Energy Efficiency
5. Project Engineers, Project Management
6. Academic and Industrial Research (R&D)

Other: IT, Academic, Nuclear, Oil and Gas

12. **What types of profiles are sought? (if any)**

The most frequent profile types mentioned are indicated below. The percentage is calculated in the basis of the number of answers obtained.

1. **Engineers, Reliability engineer, Process engineer, Project Engineer**
4. **Project Manager, Project Engineer, Management**
5. **Technical, Technological.**
6. **Energy Efficiency, Data Scientists, Programmers, Modellers.**
7. **Commercial, Sales, Customer success**

   Other: Civil Engineers, Good Communication Skills.


13. **Were your studies in ME3 an added value to your profile for your company?**

   Yes: 94%. No: 6%.

14. **European Degrees and Education**

    **Today, the European Commission encourages the award of joint degrees between 2 or more Universities instead of double degree/triple degree. Do you think that this is more attractive than a double degree/triple degree for instance? Yes or no**

   Yes: 47%. No: 53 %.
15. How do Erasmus Mundus Masters Courses foster the quality and the competitiveness of the European education?

Other: Multiple choice of study tracks, focus on key subjects, Supporting high quality education.


Competencies

16. From your perspective, please rank from the most (rank 1) to the least (rank 5) essential skills required for the jobs of the future in energy and environment

<table>
<thead>
<tr>
<th>Competency</th>
<th>Ranking 1</th>
<th>Ranking 2</th>
<th>Ranking 3</th>
<th>Ranking 4</th>
<th>Ranking 5</th>
</tr>
</thead>
<tbody>
<tr>
<td>ability to manage complex projects multi sectorial and multiscale</td>
<td>19%</td>
<td>19%</td>
<td>17%</td>
<td>17%</td>
<td>28%</td>
</tr>
<tr>
<td>(industrial/urban symbiosis)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>competencies to develop projects in an innovative way with a sustainability</td>
<td>39%</td>
<td>11%</td>
<td>22%</td>
<td>19%</td>
<td>8%</td>
</tr>
<tr>
<td>perspective (linked to entrepreneurship)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ability to evolve in finance and green economy</td>
<td>8%</td>
<td>31%</td>
<td>25%</td>
<td>19%</td>
<td>17%</td>
</tr>
<tr>
<td>ability to evolve in the digital or connected world</td>
<td>25%</td>
<td>31%</td>
<td>8%</td>
<td>19%</td>
<td>17%</td>
</tr>
<tr>
<td>ability to evolve at the level of energy/environmental/development/strategy</td>
<td>8%</td>
<td>8%</td>
<td>28%</td>
<td>25%</td>
<td>31%</td>
</tr>
<tr>
<td>policies</td>
<td></td>
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</tbody>
</table>

17. Which new competencies should a graduate develop for the future employment?

1. Digital Fluency, Programming, Data Science, Data Analysis
2. Communication, Negotiation, Presentation, Relationship Development/Management
3. Finance, Financial Analysis
4. Good listener, Team Building, Leadership, Online Collaboration Skills
5. Soft Skills, Pro-activity, Flexibility, Open-mindedness
7. Innovation, creativity


Employability and education

18. How do Erasmus Mundus Masters Courses contribute to increasing the employability of graduates?

Other: Interdisciplinary, Competitive Application Procedure, providing access to a well-recognized degree. 26 Answers considered out of 36 interviewed people from editions 2007-2009 to 2014-2016.
19. How do Erasmus Mundus Masters Courses contribute to the competitiveness of the European labour market?

*Networking: Alumni and University Networks

Other: Prepare Leaders, Entrepreneurship. 18 Answers obtained out of 36 interviewed people from editions 2007-2009 to 2014-2016.
Alumni Surveys

- **Survey 1**: Data come from the survey that was realised in December 2016. An online questionnaire was sent to the ME3 Alumni from 2007-2009 to 2014-2016 editions which represents a total of 183 ME3 graduates. 66 responses (over 183) were received which represented 36% of the alumni.
- **Survey 2**: Data come from the survey that was realized in December 2017. An online questionnaire was sent to the ME3 2015-2017 edition which represents a total of 22 ME3 graduates. 13 responses from 2015-2017 were received which represents 59% of the 2015-2017 and reflects the employment situation at 4 months after graduation.
- **Survey 3**: Data come from the survey that was realised in February 2019. An online questionnaire was sent to the ME3 Alumni from 2015-2017 and 2016-2018 editions which represents a total of 45 ME3 graduates. 37 responses (over 45) were received which represented 82.2% of the alumni.

Questions asked in these surveys, followed by a summary of answers are presented below.

1. **Are you a male or female?**

   - **Survey 1**: Male 43 (65%), Female 23 (35%)
   - **Survey 2**: Male 9 (75%), Female 3 (25%)
   - **Survey 3**: Male 19 (51%), Female 18 (49%)

2. **What is your country of origin and which country are you currently living in?**

   - **Survey 1**
     - Caribbean
     - Middle East
     - Asia-Pacific (India excluded)
     - India
     - Latin America
     - Eastern Europe
     - Europe
     - North America
   - **Survey 2**
     - Caribbean
     - Middle East
     - Asia-Pacific (India excluded)
     - India
     - Latin America
     - Eastern Europe
     - Europe
     - North America

Data collected from the alumni survey 1 (66 answers out of 183 ME3 graduates) Data collected from the alumni survey 2 (13 answers out of 22 ME3 2015-2017 graduates)
Data collected from alumni of editions 2015-2017 and 2016-2018 (37 answers out of 45 ME3 graduates).

3. Which of the following categories best describes your employment status?

Survey 1

- Employed: 58 (88%)
- Unemployed: 8 (12%)

Note: From the 8 unemployed, 6 were from edition 2014-2016. The survey was done 4 months after their graduation.

Survey 2

- Employed, not looking for work: 3 (23%)
- Unemployed: 4 (12%)
- Employed, looking for work: 12 (35%)

Note: The survey was conducted 4 months after completing the programme.

Survey 3

- Employed, not looking for work: 3 (23%)
- Unemployed: 4 (12%)
- Employed, looking for work: 12 (35%)

Note: From the 4 unemployed, 2 were from edition 2016-2018. The survey was done 5 months after their graduation.

4. For those employed, which activity sector are you currently working in?

Survey 1

- Energy technologies: 28 (30%)
- Energy Management and Policies: 11 (12%)
- Sustainability strategies: 17 (18%)
- Other: 6 (6%)
- Ecotechnologies: 8 (9%)

Note: Consultancy, Oil & Gas, EHS, Agribusiness, Sustainable supply chain, Standardization. Note: Data on graphs do not include people looking for a job (8 in total over 66 responses, 6 from edition 2014-2016)

Survey 2

- Energy technologies: 3 (30%)
- Environmental Studies and Management: 2 (20%)
- Sustainability strategies: 1 (10%)
- Energy Management and Policies: 3 (30%)
- Other: 1 (10%)

Note: Climate finance. Note: data on graph does not include unemployed people from 2015-2017 (7 out of 13 responses)
Other: Think-tank, Sustainability and Innovation, communication in the energy transition sector, Power Electricity and Energy Markets, Cleantech consulting, Climate Change consulting, Smart Cities, Automotive/Transport, and ICT for healthcare. Note: Data on graphs do not include people unemployed (4 excluded over 37 responses)

5. For those employed, what is your current position?

Survey 1

Other: Sales Manager, PhD candidate, Postdoctoral researcher. Note: Data on graphs do not include people looking for a Job (8 in total over 66 responses, 6 from edition 2014-2016)

Survey 2

Other: Analyst, Policy & Project Officer Note: Data on graphs do not include unemployed people (7 in total out of 13 responses from edition 2015-2017)

Survey 3

Other: Energy Policy Analyst, Scientific Assistant / PhD Candidate, policy support, Science Research Associate, Consultant (NOT engineer) and Research Analyst. Note: Data on graphs do not include people unemployed (4 excluded over 37 responses)
6. For those looking for work, which activity sectors are you targeting in your current job research?

![Survey 2](image1.png)

**Survey 2**

Other: Non-specified. Note: Data on graphs do not include employed people not looking for work (3 in total out of 13 responses from edition 2015-2017)

![Survey 3](image2.png)

**Survey 3**

Other: Sustainability innovation, consulting. Note: Data on graphs do not include people not looking for work (15 included out of 37 responses)

7. For those looking for work, what positions are you targeting in your current job research?

![Survey 2](image3.png)

**Survey 2**

Other: Analyst. Note: Data on graphs do not include employed people not looking for work (3 in total out of 13 responses from edition 2015-2017)

![Survey 3](image4.png)

**Survey 3**

Other: Energy Policy Analyst. Note: Data on graphs do not include people not looking for work (15 included out of 37 responses)

8. Did you/will you get another degree after graduating from ME3?

<table>
<thead>
<tr>
<th>Yes</th>
<th>15%</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>80% obtained or are in the process of obtaining a Ph.D. in Environmental Process Engineering, Environmental Sciences Erasmus Mundus Joint Doctorate in Sustainable Energy Technologies and Strategies, in Sustainability, Business Administration, Sustainable Energy, Science and technology policy</td>
</tr>
<tr>
<td></td>
<td>10% (1 student) obtained a Master of Science in Industrial Engineering</td>
</tr>
<tr>
<td></td>
<td>10% (1 student) obtained a Bachelor degree in Law</td>
</tr>
<tr>
<td>No</td>
<td>85%</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Yes</th>
<th>0%</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>20% (1 student) will apply for a Ph.D. in Energy Economy</td>
</tr>
<tr>
<td></td>
<td>40% (2 student) will obtain another Master’s in Climate Change Adaptation, and in International Development and Policy</td>
</tr>
<tr>
<td></td>
<td>20% (1 student) is considering applying for an MBA</td>
</tr>
<tr>
<td></td>
<td>20% (1 Student) has not decided yet.</td>
</tr>
<tr>
<td>No</td>
<td>100%</td>
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<table>
<thead>
<tr>
<th>Yes</th>
<th>86%</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>85%</td>
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</table>

4/8
9. You chose the ME3 Joint Masters programme for:

<table>
<thead>
<tr>
<th></th>
<th>Survey 1</th>
<th>Survey 2</th>
<th>Survey 3</th>
</tr>
</thead>
<tbody>
<tr>
<td>The mobility offered by the programme</td>
<td>89%</td>
<td>92%</td>
<td>89%</td>
</tr>
<tr>
<td>The learning content</td>
<td>83%</td>
<td>92%</td>
<td>76%</td>
</tr>
<tr>
<td>The prestige of the universities</td>
<td>29%</td>
<td>54%</td>
<td>43%</td>
</tr>
</tbody>
</table>

10. Recognition of the ME3 Joint Masters programme by Alumni

<table>
<thead>
<tr>
<th></th>
<th>Survey 1</th>
<th>Survey 2</th>
<th>Survey 3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Would recommend the ME3 joint Masters programme to a student</td>
<td>94%</td>
<td>91%</td>
<td>94%</td>
</tr>
<tr>
<td>Would recommend an ME3 student for a job</td>
<td>89%</td>
<td>100%</td>
<td>91%</td>
</tr>
</tbody>
</table>
11. Which of the following competencies (developed during the ME3 programme) are useful in your current and/or past position?

| Competency                                                                 | Surveys |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
|---------------------------------------------------------------------------|---------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|          |
| ability to manage complex projects in the field of energy and/or environment | Survey 1| 13.6%     | 40.9%     | 33.3%     | 7.6%      | 4.5%      | 17%       | 17%       | 50%       | 17%       | 0%        | 23%       | 37%       | 33%       | 7%        | 0%        |
| ability to design and control processes for energy production or effluent/waste treatment | Survey 1| 6.1%      | 7.6%      | 28.8%     | 42.4%     | 15.2%     | 0%        | 17%       | 17%       | 50%       | 17%       | 3%        | 0%        | 23%       | 33%       | 40%       |
| ability to implement mixed optimized solutions for energy supply and environmental strategies | Survey 1| 10.6%     | 36.4%     | 25.8%     | 21.2%     | 6.1%      | 17%       | 0%        | 50%       | 17%       | 17%       | 10%       | 23%       | 47%       | 10%       | 10%       |
| ability to understand existing multi-scale environmental and energy systems enabling to perform audits | Survey 1| 15.2%     | 24.2%     | 37.9%     | 18.2%     | 4.5%      | 17%       | 0%        | 17%       | 50%       | 17%       | 3%        | 13%       | 30%       | 30%       | 23%       |
| competences to develop projects in an innovative way with a sustainability perspective | Survey 1| 19.7%     | 36.4%     | 30.3%     | 9.1%      | 4.5%      | 33%       | 50%       | 0%        | 17%       | 0%        | 30%       | 37%       | 27%       | 7%        | 0%        |
| ability to communicate with divers audiences                              | Survey 1| 63.6%     | 22.7%     | 10.6%     | 0%        | 3%        | 50%       | 33%       | 0%        | 17%       | 0%        | 50%       | 27%       | 23%       | 0%        | 0%        |
| ability to work in a team                                                | Survey 1| 53%       | 34.8%     | 9.1%      | 0%        | 3%        | 50%       | 33%       | 0%        | 17%       | 0%        | 37%       | 47%       | 13%       | 3%        | 0%        |
| ability to solve a problem                                               | Survey 1| 43.9%     | 36.4%     | 13.6%     | 3%        | 3%        | 50%       | 33%       | 17%       | 0%        | 0%        | 33%       | 50%       | 10%       | 7%        | 0%        |
### 12. Please rank from the most (rank 1) to the least (rank 5) valuable thing you have gained from your mobility within the ME3 programme?

<table>
<thead>
<tr>
<th>% of interviewed people who ranked this aspect in:</th>
<th>Survey 1</th>
<th>Survey 2</th>
<th>Survey 3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rank 1</td>
<td>Rank 2</td>
<td>Rank 3</td>
<td>Rank 4</td>
</tr>
<tr>
<td>-----------------</td>
<td>---------</td>
<td>---------</td>
<td>---------</td>
</tr>
<tr>
<td>enhanced intercultural awareness</td>
<td>25.8%</td>
<td>27.3%</td>
<td>30.3%</td>
</tr>
<tr>
<td>improved foreign language competences</td>
<td>10.6%</td>
<td>10.6%</td>
<td>18.2%</td>
</tr>
<tr>
<td>enhanced employability and improved career prospects</td>
<td>19.7%</td>
<td>15.2%</td>
<td>16.7%</td>
</tr>
<tr>
<td>greater understanding and responsiveness to social, linguistic and cultural diversity</td>
<td>33.3%</td>
<td>24.2%</td>
<td>21.2%</td>
</tr>
<tr>
<td>ability to get integrated into a new country</td>
<td>10.6%</td>
<td>22.7%</td>
<td>13.6%</td>
</tr>
</tbody>
</table>
13. From the moment you started to seek a job (after completing the ME3 programme), how long did it take you to find a position (in months)?

**Survey 1**

Note: 6 people (from edition 2014-2016) over 66 Interviewed people were still looking for a job 3 months after completing the programme

**Survey 2**

Note: 7 people from edition 2015-2017 were still looking for a job 4 months after completing the programme

**Survey 3**

Note: 2 people (from edition 2016-2018) over 37 Interviewed people were still looking for a job 5 months after completing the programme