Careers at the European Space Agency
- Be a Star in ESA's Universe -

Switzerland, Zürich, 8 November 2018

Torsten Bieler – Head of Learning & Development Service, ESA/ESTEC
Agenda

About ESA
Possibilities / Opportunities
More Info
History of ESA

ESRO
European Space Research Organisation

Formed in 1975

11 founding member states
signed the original Convention:
France, Germany, Italy, United Kingdom, Belgium, Denmark, Netherlands, Spain, Ireland, Sweden, Switzerland

ELDO
European Launcher Development Organisation
The Space of ESA

22 Member States:
20 states of the EU (AT, BE, CZ, DE, DK, EE, ES, FI, FR, IT, GR, HU, IE, LU, NL, PT, PL, RO, SE, UK) plus Norway and Switzerland.

Seven other EU states have Cooperation Agreements with ESA: Bulgaria, Cyprus, Latvia, Lithuania, Malta and Slovakia. Ongoing discussions with Croatia.

Slovenia is an Associate Member.

Canada takes part in some programmes under a long-standing Cooperation Agreement.
The Space of ESA

>50 years of experience
>80 spacecraft designed, tested and operated in flight
22 Member States
Eight sites/facilities in Europe
5.6 billion Euro budget (2018)

≈2300 staff incl.
≈140(!) Young Graduate Trainees
≈50 Research Fellows
+ ca 800 contractors

3.98B€ → Member States
1.62B€ → EU, Eumetsat & other Geo-Return

ESAC (Madrid)
ESEC (Redu)
ESA HQ (Paris)
ESEC (Redu)
EAC (Cologne)
ESAT (Harwell)
ESTEC (Noordwijk)
ESRIN (Rome)
The way to ESA – A *random* example

- Battlestar Galactica
- Challenger Disaster
- “You can study Space Engineering”
- What is this ESA?
- From Internship to ESA staff
What we can offer...
(apart from astronauts)

...to become a star in ESA’s universe
What do we offer?

- Inspiring work
- Intellectually stimulating
- Team-oriented/international
- Social/sports clubs
- Competitive conditions
ESA Astronauts – app. 10,000 applicants in 2008

Andreas Mogensen (Danish)
Alexander Gerst (German)

Timothy Peake (British)
Samantha Cristoforetti (Italian)

Luca Parmitano (Italian)
Thomas Pesquet (French)

Matthias Maurer (German)
# Technical & Scientific Disciplines

<table>
<thead>
<tr>
<th>Discipline</th>
<th>Location</th>
<th>ESTEC Netherlands</th>
<th>ESOC Germany</th>
<th>ESRIN Italy</th>
<th>ESAC Spain</th>
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<td>Applied mathematics</td>
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<tr>
<td>Earth observation &amp; environmental science (geophysics, meteorology, climatology)</td>
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<td>Ground segment systems &amp; operations</td>
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<tr>
<td>Life &amp; materials sciences, materials &amp; processes engineering</td>
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<tr>
<td>Mechanical engineering</td>
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<td>Product/quality assurance &amp; safety</td>
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<tr>
<td>Planetary &amp; space science (astronomy, astrophysics, solar &amp; heliospheric physics)</td>
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<tr>
<td>Software Engineering</td>
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<td>Systems Engineering</td>
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<tr>
<td>Telecom &amp; integrated applications</td>
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Non-technical disciplines at ESA

Finance
- Project control
- Cost analysis / audit

Law
- Contracts
- Procurement
- International public law

Communications & Public Relations

Other
- IT
- Facility management
- Human resources
Learning & Development

- 300+/- training courses on offer
- Key to ensure that competencies/skills remain aligned with ESA’s vision
- Help staff move forward in their career
What are we looking for?

- Masters or PhD level
- Professional curiosity & expertise
- Passion for space
- Language skills/multi-cultural aptitude
- Industrial experience
Traineeship Programmes @ ESA

- Young Graduate Trainees
- National Trainees Programmes
- Research Fellowship Programme
- Students Placements
- Network/Partnering Initiative
Young Graduate Trainees (YGT) (1/2)

Recent Masters Degree graduates, with limited professional experience

Preparation for a job in Europe's space industry and research institute

Rich personal and professional experience of living and working in another country in a diverse and international environment

1 year, with possibility for 1 additional year
Young Graduate Trainees (YGT) (2/2)

Trainee Opportunities

- Advertised mid-November on the ESA web site
- Interviews February/March
- Start date between May/Sept

140+ traineeships in 2018(!) – all establishments

2016:
3000 applications,
27% female

34% women recruited – Gender policy for women in technical and scientific roles
YGT secondment to Industry

Follows the ESA traineeship

Who: YGTs who excel in performance

Assignment agreed between ESA and hosting company

We are looking to expand the scheme – develop more co-operations with space companies

1 year secondment in European Space Sector

Better investment of our best young talents

Who: YGTs who excel in performance
National Trainee Programmes

- Bilateral agreements: ESA ↔ national entities for example DLR, Swiss Space Office...
- Target: Young, recent master graduates from Belgium, Germany, Luxemburg, Portugal and Switzerland
- On-the-job training – tutor supervision and guidance
- 2 years, with an evaluation at the end of the 1st year
- 25 national trainees every year
Research Fellowship Programme

- Recently attained **doctorate (PhD)** in a relevant field
- Carry out advanced research related to space science, space applications and space technology
- **2 year** contract – can exceptionally be extended for a third year
- Approximately **50** Research Fellows every year
Students Placements (Intern)

- Students in their last or penultimate year of a Master's degree
- Space Sector experience as part of the studies
  - Fulfilling internship requirements for graduation
  - Final Thesis contribution
- 3 – 6 month placement, can be split into two parts
- Students can apply from 1 Sep - 31 Oct indicating their area of interest
- Around 100 students each year → 75 at ESTEC
Network/Partnering Initiative (NPI)

- Co-funding of research projects up to 50% or max. €30K/year for doctorate degree investigations
- Access to the ESA laboratories & facilities - for 6 - 12 months
- Technical support – collaboration with ESA experts to discuss proposal concepts and verify potential for space applications
- Networking – can search for industrial partners for further cooperation and to build 'innovation networks' through ESA links
- Selection of proposals takes place twice a year
After an ESA Traineeship...

- ≈15% of ESA staff have been either a YGT or Internal Research Fellow
- ≈10% of YGT’s and Research Fellows become on site contractors
- Research Fellows in fields of astronomy, planetary sciences, helio-physics and instrumentation pursued their career in Research Institutes and Universities
- Most YGT’s find a job in European Space or non-space Industry
- Many YGT’s pursue a Ph.D.
ESA Career Web Page

STUDENT OPPORTUNITIES

- Post Docs: Research Fellowship
- PhD students:
- Network/Partnering Initiative
- Graduates: Young Graduate Trainees
- Graduates: National Trainees
- Student Internships

Vacancies
HR Marketing in Social Media - Facebook

Visit ESA Facebook
ESA – European Space Agency
HR Marketing in Social Media - LinkedIn

Visit ESA LinkedIn Careers At ESA

LinkedIn Group: YouSpace

Interest in Space?

YouSpace has launched a LinkedIn group! YouSpace is dedicated to the Space sector to share innovations, events, success stories, job opportunities, dialogues, internships, ... between Students, Academics, Researchers, Industrials, Institutionalists (Space Agencies, EU Commission, ... ) and everybody involved in this fascinating sector!

Check it out: https://www.linkedin.com/gr7gTW2

81 Likes • 6 Comments

Organic Reach

Targeted to: All followers

25,380 Impressions
937 Clicks

4.06% Engagement
94 Social Actions

Sponsoring an update allows your company to reach non-followers.

Learn More
Questions???
Be a Star in ESA’s Universe

- Work space – inspiring & lot of space
- “Pushing boundaries of the Universe”
- There are many possibilities
- You can be a part of it
Thank you for your attention

More information:
HR-Marketing@esa.int