

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

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#### History of ESA





#### **ESRO**

European Space Research Organisation



#### **ELDO**

European Launcher Development Organisation



#### Formed in 1975

# 11 founding member states

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

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#### The Space of ESA

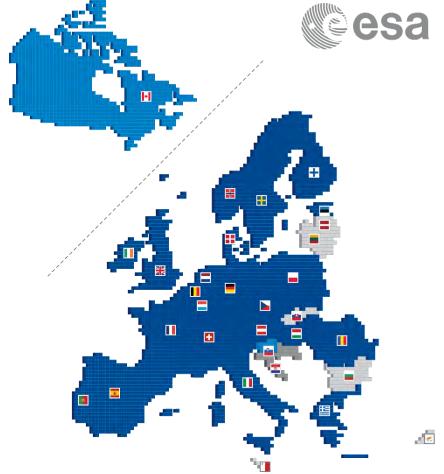
#### 22 Member States:

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**.



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#### 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 ESTEC (Noordwijk) ECSAT/(Harwell) EAC (Cologne) ESOC (Darmstadt) ESA HQ (Paris) Ð 3.98B€→ Member States 6 1.62B€ → EU, Eumetsat ESAC (Madrid) & other ESRIN (Rome) Geo-Return Torsten Bieler | ESTEC | 07/11/2018 | Slide 5

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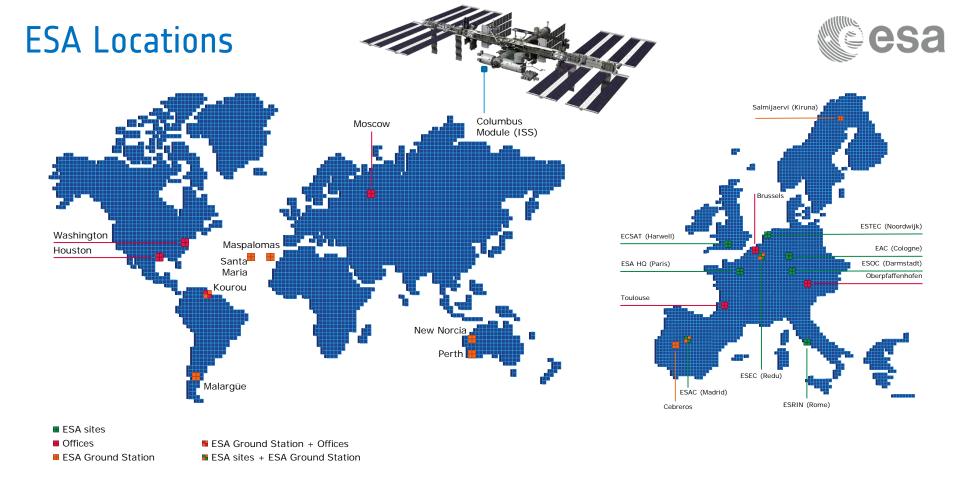










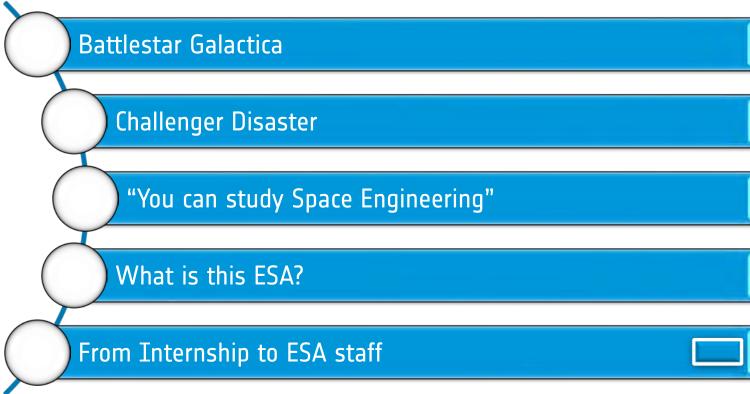


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#### The way to ESA – A *random* example





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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

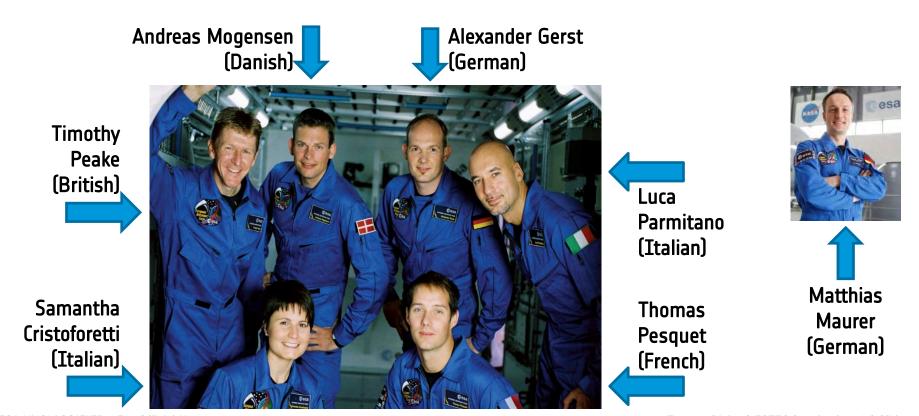
Competitive conditions



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#### ESA Astronauts – app. 10,000 applicants in 2008





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# Technical & Scientific Disciplines



Location	ESTEC	ESOC	<b>ESRIN</b>	<b>ESAC</b>	ECSAT
Discipline	Netherlands	Germany	Italy	Spain	UK
Applied mathematics	√	√			
Earth observation & environmental science (geophysics, meteorology, climatology)	√		√		√
Electrical engineering	√	√			
Ground segment systems & operations		√	√	√	
Life & materials sciences, materials & processes engineering	√				
Mechanical engineering	√				
Product/quality assurance & safety	√	√	√	√	
Planetary & space science (astronomy, astrophysics, solar & heliospheric physics)	√			√	
Software Engineering	√	√	√	√	
Systems Engineering	√				
Telecom & integrated applications	√				√

#### Non-technical disciplines at ESA





Project control

Cost analysis / audit

Law

Contracts

Procurement

International public law

Other

IT

Facility management

Human resources



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Communications

& Public Relations















# 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



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#### What are we looking for?









Language skills/multi-cultural aptitude

Industrial experience



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European Space Agency

### Traineeship Programmes @ ESA





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# 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

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#### YGT secondment to Industry



Follows the ESA traineeship

> 1 year secondment in European Space Sector

Better talents

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

investment of our best young

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#### National Trainee Programmes





Bilateral agreements: ESA  $\leftarrow \rightarrow$  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  $\rightarrow$  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 l 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.

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#### ESA Career Web Page

# STUDENT OPPORTUNITIES PEOPLE OF ESA

Post Docs: Research

**Fellowship** 

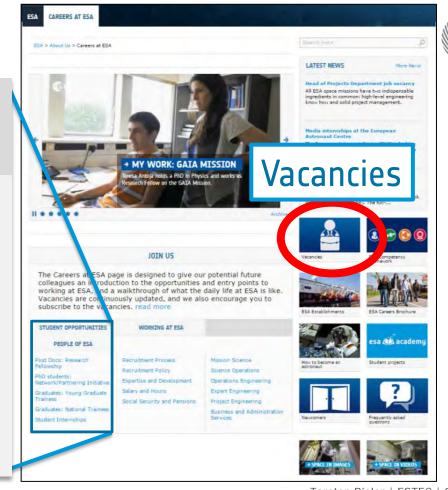
PhD students:

Network/Partnering Initiative

**Graduates: Young Graduate Trainees** 

**Graduates: National Trainees** 

**Student Internships** 









#### HR Marketing in Social Media - Facebook



Visit ESA Facebook

ESA - European Space

Agency





#### HR Marketing in Social Media - LinkedIn







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, Institutionals (Space Agencies, EU Commission, ...) and everybody involved in this fascinating sector!

Check it out! https://lnkd.in/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

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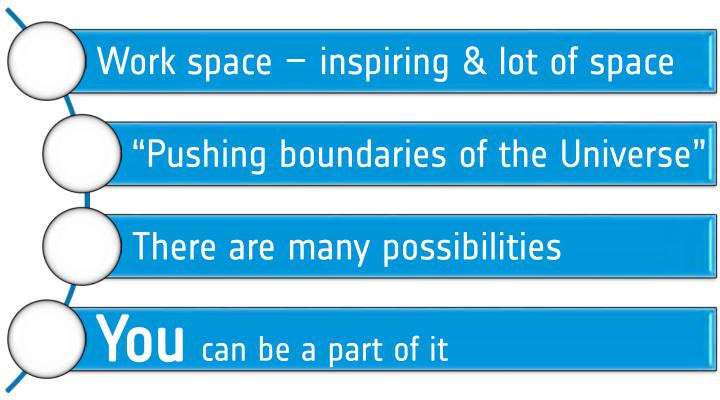






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