



## Space science & industry oriented internships & programmes in Europe

Polska Agencja Kosmiczna / Polish Space Agency

2021



With the support of the  
Erasmus+ Programme  
of the European Union



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## FUTURE SPACE PARTNERS

Organization	Akronim	Country
Coordinator: Space Research Centre Polish Academy of Science	CBK PAN	Poland
Ośrodek Edukacji Informatycznej i Zastosowań Komputerów w Warszawie	OEIIZK	Poland
Polish Space Agency	POLSA	Poland
NEMO Science Museum	NEMO	Holland
Thessaloniki Science Centre & Technology Museum	NOESIS	Greece



Project partners – map

## 1. INTRODUCTION

Even the best academic background, a diploma of the most prestigious university, all exams passed with flying colours might be not enough to convince potential employers to one's job application. The more and more commonly appreciated and attention-grabbing part of the graduate's resume is work experience gained during studies or right after the graduation. The space industry, with all its innovativeness as well as multidisciplinary inclination, is a kind of environment where taking part in 'real-life' projects, facing not some theoretical, but hands-on challenges is crucial for building trust and gaining recognition even at the start of one's career.

The objective is not to cover all the spectrum of the available programs and schemes related to space, rather to put a spotlight on those most distinguishable and focused exclusively on preparing to work in the sector right after graduation.

The catalog provides general descriptions on internships and schemes, as well as basic practical information that is valuable to potential applicants. However, please bear in mind that the contents cannot be static in a changing environment, hence the information in this catalog should be regarded only as a reference and a starting point for further verification. If you actually consider applying for any of the presented schemes, programs and internships, please visit the appropriate website and consult directly with the entity responsible for the admission process.

### How to keep an eye on current opportunities?

In order not to miss out on any interesting internship offers we recommend to follow and frequently visit a couple of online services that gather fairly up to date info and where employers post their openings. Some of these websites cover mostly regular job vacancies, though usually there is a filtering option provided, enabling to focus on temporary positions available for students or other candidates with less or no experience.

### Getting to know with the most popular schemes

When a schedule of your studies is still a priority, it is convenient to be able to plan ahead. It is possible regarding some of the programmes which are open more or less non-stop or at the same time every year. The other advantage of such initiatives is possibility to prepare and meet the requirements, often the same or just slightly changed to the previous editions / rounds. The certain level of predictability also applies to some other conditions like duration, financial issues etc.

### Covid-19 impact, not entirely negative

The SARS-CoV2 pandemic circumstances have caused significant alterations when it comes to internship organization. In many cases a switch to working from home, like for the regular jobs, has been the only reasonable option beside cancelling or postponing. However, even after the situation gets back to (new) normal, some of the programmes are likely to keep remote collaboration as an option, especially when a direct, person-to-person contact is not absolutely essential. It should widen the access to positions so far not considered by part of the potential applicants, mainly because of location or too high costs.

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Please do not forget to visit Future Space project's website again, since it will be updated and other useful tips will appear here.

## **ABOUT THE PROJECT**

FUTURE SPACE is a transnational cooperation project implemented within the framework of ERASMUS+ Programme, financed by the European Union.

The consortium members are: Space Research Centre of Polish Academy of Sciences (CBK PAN) as the leader, Polish Space Agency (POLSA), Computer Assisted Education and Information Technology Centre in Warsaw (OEIIZK), National Center for Science and Technology in Amsterdam (NCWT) and Thessaloniki Science Center and Technology Museum. For further information on all the institutions please visit <https://futurespaceproject.eu/> or email us at [futurespace@cbk.waw.pl](mailto:futurespace@cbk.waw.pl).

This catalog, along with a series of video interviews with experienced professionals, presented as role models, is a part of the 'Space Career Paths' intellectual output of the project, complementary to its main deliverables: the Space Schools Programme and the Space Programme for science centres and other non-formal education organisations.

## 2. SCHEMES

### EUROPEAN SPACE AGENCY

Internship opportunities at ESA will be published in November and will remain open for a month. Exceptionally this year, due to the uncertainties arising from the COVID-19 pandemic, the student internship programme will be offered remotely, with interns working from their place of residence, not hosted at an ESA site. (Only for very rare exceptions (e.g. where laboratory access is essential) will opportunities be offered on site.) This decision has been taken in response to the COVID-19 measures currently in place in ESA Member States, Associate Member States and Cooperating States and also across ESA establishments.

**Internships are unpaid**, however, a monthly allowance of **€600** for non-residents and **€300** for residents is granted. A non-resident is defined as someone living more than 50 km from the relevant establishment.

**For more information, please visit:**

[https://www.esa.int/About\\_Us/Careers\\_at\\_ESA/Student\\_Internships2](https://www.esa.int/About_Us/Careers_at_ESA/Student_Internships2)

### ESA Young Graduate Trainee (YGT)

A unique professional experience as part of a family of scientists, engineers and business professionals from all over Europe, working together on inspiring space missions in an international, multicultural and friendly environment.

ESA's Young Graduate Trainee (YGT) Programme offers young graduates the opportunity to gain valuable on-the-job experience in the development and operation of space missions in an international and multicultural environment.

**A salary of €2300 - €2700 per month** (depending on location of the ESA establishment) exempt from national income tax in ESA Member States, as well as excellent employment conditions.

**Travel expenses reimbursed at the beginning and end of the contract.**

For more information, please visit:

[https://www.esa.int/About\\_Us/Careers\\_at\\_ESA/Graduates\\_Young\\_Graduate\\_Trainees](https://www.esa.int/About_Us/Careers_at_ESA/Graduates_Young_Graduate_Trainees)

## AIRBUS

The internship or placement program is designed to provide our students the opportunity to consolidate their theoretical foundation through practical experience. A major component of this experience is the formation of a professional attitude.

The students are expected to develop their personality and capacity to adapt to, and handle, challenging situations in the real business world. To qualify, you must be enrolled in a university and be looking for a placement that will last between three months and one year.

For more information, please visit:

<https://www.airbus.com/careers/students.html>

## MAX PLANCK INSTITUTE

The MPIA offers up to four positions for internships every year to bright bachelor and master students who desire to acquire hand-on experience of research and instrument development in astronomy, or wish to fulfill their degree's requirement. The institute proposes students to work **full-time for two to three months**. Travel costs are supported and a salary is offered (about **1000€/month, or 820€/month net with full social benefits**), as necessary. The internship typically takes place during the summer (between May and September) but not necessarily. Assistance will be provided to seek accommodations as close as possible to the institute or the city centre.

For more information, please visit:

<https://www.mpia.de/en/careers/internships/summer>

## ASPIRE

**ASPIRE** is an 8-week online programme for highly-motivated students to work at the cutting-edge of astronomical research at the [Anton Pannekoek Institute \(API\), University of Amsterdam](#). Our goal is to give you the experience of astronomical research at a world-leading institute and help kick-start your journey into a science career and all the other avenues it can open. You'll gain new research skills and an advisor who will be your guide and mentor.

For more information, please visit:

<https://aspire.science.uva.nl/index.html>

## EUMETSAT

EUMETSAT offers a small number of internships every year to students on courses with mandatory internship requirements. Internship placements are designed to provide experience in space systems engineering, satellite meteorology, or in work as a public, international organisation.

Placements are from one to maximum six months in duration. Please note that internship positions at EUMETSAT are offered as opportunities to develop your working-experience during your studies. EUMETSAT internships will not develop into a permanent position.

No salary is paid to interns who are still in studies, however a daily allowance and contribution to travel / accommodation costs may be provided. The conditions will be established taking into account the requirements and policy of the intern's educational institution. Interns are responsible for providing their own health and accident insurance and for finding their own accommodation in Darmstadt.

**For more information, please visit:**

<https://www.eumetsat.int/careers-eumetsat/internship-opportunities>

### **EUSPA (formerly GSA)**

The European Union Agency for the Space Programme (EUSPA, formerly The European GNSS Agency - GSA) provides university students and graduates with a unique and first-hand experience of the workings of the EUSPA, in particular, and of the EU institutions in general. Currently, there are two types of traineeships:

**Short-term unpaid traineeship** to complete and validate mandatory academic requirements (maximum duration three months).

**Regular paid traineeship** (maximum duration one year)

For more information, please visit:

<https://www.euspa.europa.eu/about/careers-euspa/traineeship-listing>

### **OTHER ORGANIZATIONS**

**European Defence Agency (EDA)**

<https://eda.europa.eu/careers/traineeship>

**European Council**

<https://www.consilium.europa.eu/en/general-secretariat/jobs/traineeships/positive-action-programme-for-trainees-with-a-disability/>

**Joint Research Centre for the European Union (JRC)**

<https://ec.europa.eu/jrc/en/working-with-us/jobs/temporary-positions/jrc-trainees>

**European Commission (e.g. Directorate General for Defence Industry and Space – DG DEFIS)**

[https://ec.europa.eu/stages/node\\_en](https://ec.europa.eu/stages/node_en)

**The International Association for the Exchange of Students for Technical Experience (IAESTE)**

[https://iaeste.org/internships?utf8=%E2%9C%93&ref\\_no=&internship\\_type=&sort=deadline\\_at&commit=Find+Internships](https://iaeste.org/internships?utf8=%E2%9C%93&ref_no=&internship_type=&sort=deadline_at&commit=Find+Internships)



### 3. INTERSHIPS

#### (EXAMPLE OFFERS)

#### EARTH OBSERVATION VISUALISATION INTERN

**Description:** SpaceTec Partners is a boutique consultancy that assists its clients with management consulting, market development and innovation advisory, as specialists in the space industry. SpaceTec's areas of activity include space (earth observation, navigation, satellite communications, exploration and situational awareness), geo-information, security & defence, transportation & aviation, mobile & mobility, and energy.

**Duration:** 2-6 months

**Location:** Brussels, Belgium (partially remotely)

**Compensation:** not disclosed, depending on the duration of the internship

**Website:** <http://www.eo4geo.eu/training/earth-observation-visualisation-intern/>

#### EO STATISTICAL AND MATHEMATICAL DATA ANALYSIS AND PROTOTYPING EO DERIVED ALGORITHMS

**Description:** BISA (Inclusive Blockchain Insurance using Space Assets) enables the new generation of insurance for agriculture. IBISA is a Platform as a Service for mutual and insurers built to solve the un-insurability of smallholder farmers. We leverage technology satellite Earth Observation data and blockchain technology to build innovative and commercially viable protection products together with our local partners.

**Duration:** 2-4 months

**Location:** Luxembourg (remotely)

**Compensation:** not disclosed, depending on the experience of a given candidate

**Website:** <http://www.eo4geo.eu/training/eo-statistical-and-mathematical-data-analysis-and-prototyping-eo-derived-algorithms/>

#### INTERSHIP SPACELABS ENGINEERING – THERMO ELASTICS

**Description:** The overall topic of the internship will be on ThermoElastic (TE) analysis. TE analysis in space combines the disciplines of thermal and structural modelling and analysis. In TE analysis, the thermal model provides the temperature inputs to the structural model which is used to compute distortions, stresses, etc. Due to the different domains, different modelling and analysis methods are used (i.e. ESATAN for thermal analysis, NASTRAN for structural analysis). As a result, the final TE results are highly dependent on all process steps and uncertainties can be introduced along the way. This topic is becoming more and more important as the TE results can often directly impact the performance of a mission where increasingly high accuracies are needed for e.g. pointing, optical performance etc.

**Duration:** 5-6 months

**Location:** Netherlands

**Compensation:** not disclosed

**Website:**

<https://www.careersin.space/job/atg-netherlands-internship-spacelabs-engineering-thermo-elastics/>

#### **INTERN – LEGAL DEPARTMENT**

**Description:** Undergraduate or Master’s degree student in Law is required to support the Legal Department of the engineering company DEIMOS Space, as well as the subsidiaries of its Group established in Spain, England, Portugal and Romania, including its branches. Main responsibilities include: providing support for the review and monitoring of confidentiality agreements, UTEs agreements, commercial contracts, intra-group, subcontracts (public sector contracts, contracts with the European Space Agency, etc.), and corporate contracts (insurance, rentals, loans, suppliers, etc.); providing support to the corporate secretariat and the monitoring of claims and litigation; providing support for the administrative management of contracts (shipments, registration and filing).

**Duration:** Not stated

**Location:** Not stated

**Compensation:** not disclosed

Website: <https://www.careersin.space/job/deimos-elecnor-group-spain-madrid-intern-intern-legal-department/>

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## 4. USEFUL LINKS

You haven't found an offer that suits your interests? The collection of links below comprise useful search tools and internship lists:

<https://sa.catapult.org.uk/work-with-us/space-placements-industry-spin/>

<https://www.hespace.com/>

<https://www.sapienzaconsulting.com/space-defence-jobs-at-sapienza/>

<https://www.careersin.space/>

<http://www.eo4geo.eu/internship-and-project-work-offers/>

<https://www.airbus.com/careers/students-graduates.html>

[https://spacecareers.uk/?p=internships\\_placements](https://spacecareers.uk/?p=internships_placements)

<https://erasmusintern.org/>

## 5. FUTURE SPACE PROJECT CONSORTIUM MEMBERS



The Space Research Centre is an interdisciplinary research institute of the Polish Academy of Sciences, established to conduct scientific research and activities in order to develop the space industry in Poland.

Our mission is the development and dissemination of space activities, which might help our country in achieving the image of the state actively involved in space research at world level and the creation of satellite technologies.

Our goal is to explore bridges between the latest scientific discoveries in the field of space research and its practical application in daily life. We develop solutions and promote the use of satellite systems in the national economy, in areas such as navigation, telecommunications and earth observation.

Address: Space Research Centre of Polish Academy of Sciences, Bartycka 18A, 00-716 Warsaw, Poland

Contact: Phone +48 22 4966 200, e-mail [cbk@cbk.waw.pl](mailto:cbk@cbk.waw.pl)



Polish Space Agency (POLSA) was established by the Act of 26 September 2014. The task of the Agency is to support the Polish space industry by combining the world of business and science. We also help to get provision for entrepreneurs in obtaining funds from the European Space Agency (ESA). An important aspect of the Agency's activity is to promote the development of satellite technology that can be used in everyday life, including communication, navigation, environmental monitoring and weather forecasting. The priority task of the Polish Space Agency is to take care of the security of the country and its citizens and to increase Polish defense capabilities through the use of satellite systems.

Address: Trzy Lipy 3 (Section C), 80-172 Gdansk, Poland

Contact: Phone +48 58 500 87 60, e-mail: [sekretariat@polsa.gov.pl](mailto:sekretariat@polsa.gov.pl)



Computer Assisted Education and Information Technology Centre (OEiizK) is an in-service teachers training institution specialized in computer science and ICT. We provide support for teachers in their professional development as far as computer skills and didactic applications of information technology are concerned. We are a public institution for in-service teacher education managed by the Mazovian Province Local Government. We started our activities in 1991. Our pedagogical team consists of twenty five highly qualified teachers-consultants for whom information technology (IT) at school are the field of professional activity. Success in teacher training which is constantly reported is based on our research, completed and implemented projects and publications.

Address: Raszyńska 8/10 02-026 Warsaw, Poland

Contact: Phone +48 22 579 41 00, e-mail: [sekretariat@oeiizk.waw.pl](mailto:sekretariat@oeiizk.waw.pl)



NEMO Science Museum is an interactive, informal learning environment in which the general public comes into contact with science and technology. Visitors see, hear and experience how scientific phenomena and technology play an important part in their lives. NEMO works closely with the fields of science and education. NEMO is a registered museum and the owner of a significant historical collection. In addition to the full museum experience in the centre of Amsterdam, people can also get a taste of NEMO at Schiphol Airport.

Address: Oosterdok 2 1011 VX Amsterdam PO Box 421 1000 AK Amsterdam, Netherlands

Contact: Phone +31 (0)20-531 32 33, e-mail [info@e-nemo.nl](mailto:info@e-nemo.nl)

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NOESIS Science Center and Museum of Technology is a cultural, educational, public benefit Institution that offers the student community, but also the general public a suitable environment for getting to know and understanding the positive sciences and informing them about technological developments. Its founder was the Technical Museum of Thessaloniki, which began its course in 1978 and then, in 2001, developed into NOESIS. It reports to the General Government and reports to the General Secretariat for Research and Innovation (GGEK).

Address: 6th km Thessaloniki-Thermi Rd, PO Box 60330, 57001 Thermi, Greece

Contact: Phone +30 2310 483000, e-mail: [info@noesis.edu.gr](mailto:info@noesis.edu.gr)