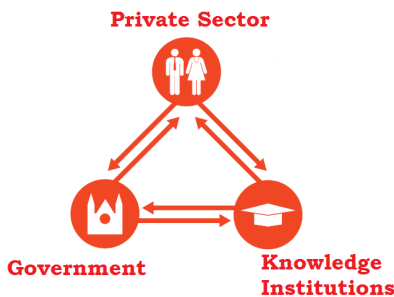




# EURAXESS Members in Focus: The Netherlands

EURAXESS – Researchers in Motion is an initiative of the European Research Area (ERA) that addresses barriers to the mobility of researchers and seeks to enhance their career development. This pan-European effort is currently supported by over 40 countries, of which we will profile one in each of our quarterly EURAXESS Japan e-newsletters. In this edition, we will zoom in on the Netherlands.



The Dutch government follows a top sector approach where nine sectors have been identified as priority areas including Agri-Food, Horticulture, High-Tech, Energy, Logistics, Creative industries, Life Sciences & Health, Chemicals, and Water. The Government, private sector and academia together form a 'Golden Triangle' also known as 'Triple Helix' model, in which interactions among each other are highly encouraged. In the Netherlands, the private sector is a major contributor to overall R&D expenditure and there exist strong linkages between academia and industry.

The Netherlands, often referred to as Holland, was created by the Dutch in the delta where three large rivers flow into the North Sea. Due to its strategic location, the country is known already for centuries for its international traders and the world's first multinational corporation, which originates from the 17<sup>th</sup> century. Presently ranked 5th on both Global Innovation Index and Global Competitiveness Report 2015-2016, the Netherlands offers a truly innovative and creative environment.

The Dutch research environment stands amongst the best in the world. All 14 Dutch universities are ranked in the top 200 of Times Higher Education Rankings. A [study commissioned by the European Commission](#), in relation to the Europe 2020 strategy, places the Dutch research system among the very best in terms of openness, excellence and attractiveness.

The Netherlands is maintaining a strong position in the European Research Programme Horizon2020, with 7,6% of the budget flowing to Dutch participants. The private sector is taking its proper share with 28% of all funds flowing to The Netherlands. In [EUREKA cluster projects](#) and Eurostars SME innovation projects, The Netherlands is not only a strong contributor in budget, but also in private sector participation.

## 1.1 Netherlands' Research, Development & Innovation System

Public Sector research institutions in the Netherlands consist of 14 universities, 18 KNAW Institutes<sup>1</sup>, 6 Netherlands Organization of Scientific Research (NWO) Institutes, 5 Large Technological Institutes (GTIs)<sup>2</sup>, 14 TNO<sup>3</sup> Institutes, and a number of other state owned research and advisory centres. All Dutch universities are ranked in the top 200 of Times Higher Education Rankings. Together, these universities and institutes form the backbone of the research and innovation landscape in the country. In line with the 'Topsector policy', which strives for closer collaboration in R&D between Academia and Business, the Netherlands has emphasized the importance of Applied Sciences and practical research. In the newly released REUTERS ranking for Europe's Most innovative Universities, The Netherlands holds 6 places inside the Top 50. (<http://mobile.reuters.com/article/idUSKCN0Z00CT>)

In 2014, Dutch institutions published 72,000 publications, ranking 5th in the world. In terms of excellence (share of highly cited publications, top 10%), Clinical Medicine, Biomedical Sciences, Basic Life Sciences and Physics &

<sup>1</sup> So called because KNAW acts as the umbrella organization for these institutes

<sup>2</sup> Conducting applied research in aerospace, water management, hydraulic engineering, maritime research and energy research

<sup>3</sup> TNO stands for Netherlands Organization for Applied Scientific Research which is an independent organization focusing on applied science



Material Science were top research areas. The total number of European patents with Dutch origin in 2015 stood at a total of 1998.

## 1.2 Research Excellence in The Netherlands

The Netherlands is very successful in securing European research funding both from the [Marie Skłodowska Marie Funding program \(video\)](#) and [ERC funding \(video\)](#). In order to promote research excellence, NWO offers two types of funding – ‘Innovation Research Incentive Scheme’ for talented, creative researchers who engage in innovative research, which provides three types of grant ([Veni, Vidi, Vici](#)) geared to different stages in a researcher’s career and ‘[Spinoza prize](#)’ which is offered yearly to 3 or 4 excellent researchers, who stand out with groundbreaking research conducted in the Netherlands.

## 1.3 Recruitment Opportunities

### 1.3.1 Public Sector Recruitment Opportunities:

The Netherlands offers various recruitment opportunities for international candidates. All university research positions that are open to international researchers, are listed on the job portal [www.euraxess.eu](http://www.euraxess.eu) and [www.academictransfer.org](http://www.academictransfer.org). One can also visit [FOM Research vacancy](#) page, which lists vacancies available at FOM research institutes. Individual institutes also list such opportunities on their websites, further details can be found [here](#).

### 1.3.2 PhD positions:

The Netherlands is a very attractive destination to pursue PhD degree where it is not regarded as study but as serious research and PhD candidates are often paid. A PhD from Dutch university is highly regarded because of high academic standards. The Netherlands has an excellent international ranking for number of publications per researcher (2nd) and for the impact of research publication (4th). Almost all PhD positions are linked to a university, but PhD-candidates may find place at other institutes or even in industry. More information can be found here: <https://www.studyinholland.nl/education-system/degrees/phd>.

### 1.3.3 Private Sector Recruitment Opportunities: (see Note 1)

Many Dutch companies, both large MNCs as well as SMEs, such as Philips, ASML, Xelvin, Cosine and OctoPlus among others are continuously looking for Bachelors, Masters and PhDs with specialist knowledge. To give an example, Cosine, which is high-energy optics specialist, recruits PhDs in physics from time to time. To apply, candidates should hold a PhD degree in physics related to high-energy optics with 3 years of experience in development and testing of high-energy optics during or after his/her PhD. For more information regarding this position, please contact [Dipl.-Ing. Max Collon](#).

## 1.4 Funding Opportunities

NWO provides [71 grants](#) for researchers, from PhD candidate level onward. [Veni](#) is a very attractive grant for international researchers, which allows those who have recently obtained their PhD to conduct independent research and develop their ideas for a period of three years. KNAW has 15 funding [instruments](#) amongst which are the NIAS Individual Fellowships. These fellowships are provided to senior scholars with at least three years of post-PhD

A large part of R&D in the Netherlands is carried out by **private companies** and they often recruit researchers at varied levels. Many of these companies are located in organised hubs such as ‘Brainport’ in Eindhoven is well known as Europe’s leading High-tech region, and ‘Health Valley’ which is a network of 700 health related organisations working on innovation in healthcare space. (Note1)

There are various **funding agencies** in the Netherlands – The Netherlands Organization for Scientific Research (NWO), Dutch Technology Foundation (STW), The Netherlands Organization for Health Research & Development (ZonMW) and The Royal Netherlands Academy of Arts and Sciences (KNAW), which offer various grants and fellowships for individual researchers. (Note 2)



degree academic experience, who have already made a considerable contribution to their field. The aim is to carry out advanced research in humanities and social sciences through individual projects, lasting one or two semesters at the institute. (see Note 2)

### FactCards

Academic Transfer has set up a great tool to accommodate international researchers coming to the Netherlands. Visit: [Fact Cards](#)



### Easy residence permit procedures

The Netherlands has a very flexible immigration procedures system for researchers and highly educated persons. Your host institution will take care of your residence permit application; it will be dealt with swiftly and includes a free work permit for your research activities. Your possible spouse will also be taken on in this procedure and will receive a residence permit which allows him/her free access to the labour market (no work permit required).

If you want to come to the Netherlands but have not found a job yet, you may be able to use an [orientation year](#). This allows access to the Netherlands and the Dutch labour market for a year to people who received a Master or PhD at a university in the top 200 of either of the THE, QS or Shanghai universities rankings.

## 1.5 Important information for incoming researchers

The Netherlands belongs to the EURAXESS initiative that provides support to researchers and their families when coming to the Netherlands (in key areas such as visas, housing, schooling, etc.). EP-Nuffic is the national coordinator of the Dutch network. Additional information can be found at [www.euraxess.nl](http://www.euraxess.nl). The Netherlands has easy residence permit procedures.

## 1.6 Research Cooperation with Japan

Japan and The Netherlands have a history of knowledge-based exchanges and trade that goes back over 400 years. These ties are alive and kicking today. The 6<sup>th</sup> Japan-Netherlands Joint Committee on Science and Technology was held in Tokyo on 11 november 2015 on the occasion of Prime Minister Rutte's visit to Japan. Research themes that were covered included cybersecurity, agriculture, quantum computing and renewable energy.

Prime Minister Abe and Prime Minister Rutte agreed on a strategic partnership between Japan and the Netherlands, which includes the ambition to strengthen collaborations in STI generally, as well as important STI topics including cybersecurity and agriculture.

The Netherlands Organization for Scientific Research (NWO) collaborates with JSPS in the JPS Fellowships for Research in Japan programme. This programme supports Postdoctoral Fellowship and short-term Invitation Fellowship (Further information: [NWO](#)).

In practice, many if not most of the research and academic exchange links between Japan and the Netherlands are based on faculty to faculty agreements. These include topics and universities across the wide spectrum of academic learning and research.

For example, in June 2016 a MOU on Turbomachinery between the Delft University of Technology (TU Delft) and the Osaka Institute of Technology (OIT) was signed. Both universities will collaborate in the field of Turbomachinery for aerospace and industrial applications, an area of vital importance to solve the future challenges in this field. As first activity under the MOU, both universities will exchange students and researchers from coming August.



MOU signing ceremony, June 23, the Netherlands Embassy in Tokyo

## Conclusion

If you are interested to learn about research opportunities or would like to have more information about the R&D landscape in the Netherlands, please contact the Dutch Embassy in Japan ([mail@nost.jp](mailto:mail@nost.jp)).