www.universeh.eu

European Space University for Earth and Humanity

UNIVERSEH is an alliance of five European universities established to develop a new way of collaboration in the field of Space, within the "European Universities" initiative.

The alliance aims to create new higher education interactive experiences for the university community, teachers and students, and for the benefit of society as a whole. Such initiatives will enable broadminded, informed and conscientious European citizens to capture and create new knowledge and become smart actors of European innovation, valorisation and societal dissemination within the Space sector, from science, engineering, liberal arts to culture.

In Beyond UNIVERSEH, the alliance will develop the research and innovation dimension. By creating a research policy roadmap for 2035 and a vision for 2050 within the space sector, the alliance expects to notably transform the future Space and New Space research landscape, as well to enhance the links between education and research.

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List of abbreviations

- **AGH**- AGH University of Science and Technology
- **BU**- Beyond Universeh
- **CNES-** Centre National d'Études Spatiales
- **EC**- European Commission
- **LTU**- Lulea University of Technology
- **PI**- Principal Investigator
- **TBS**- UT$ Business School (member of UT)
- **TRL**- Technology Readiness Level
- **UDUS**- Heinrich Heine University Duesseldorf
- **UNI.LU**- Université du Luxembourg
- **UT**- Université Fédérale de Toulouse-Midi Pyrénées
- **UT3**- Université Paul Sabatier Toulouse III (member of UT)
- **WP**- Work Package

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Introduction

This report presents practices of exchanging of academics between universities and companies. Nowadays changes in the space sector happen very quickly. There are more and more private companies launching their own rockets and deploying satellite constellations, like for example SpaceX, Blue Origin or Virgin Orbit. These activities, which were domain of government agencies are possible in the private sector because of change the technologies in use in manufacturing, propulsion and launching which are less expensive and much easier to implement. The technological improvements, which are interesting for investors, result in a surge of space funding over the past years.

These activities, once primarily the domain of government agencies, are now possible in the private sector because recent technological advances in manufacturing, propulsion, and launch have made it much easier and less expensive to venture into space and conduct missions. Lower costs have opened the door to new start-ups and encouraged established aerospace companies to explore novel opportunities that once seemed too expensive or difficult. The technological improvements have also intrigued investors, resulting in a raise of space funding over the past five years. The potential for innovative space applications is very big, however it is based on interdisciplinary knowledge, e.g. pharmaceutical companies can establish a lab on space to study cell grow under new treatment to determine lack of gravity to improve treatment process. This research can be essential for a business in a near future. But how and when should companies take advantage of cooperation with university staff and their greater access to space and pursue emerging use cases? And how can they decide what opportunities are most promising to transfer knowledge from a university?

Much solutions remain uncertain, companies that begin exploring these questions now are expected to gain long-term advantages. With lower costs and better technological capabilities, the space economy may finally be at a growing period, where businesses in cooperation with academia can conduct large-scale activities in space.

In our opinion the best way to transfer of ideas and technological solutions is staff exchange between university and business. At each university of UNIVERSEH alliances there are different schemes for exchange of staff.

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University of Toulouse

In the first place we will present the tools and schemes deployed at the national level and then those deployed by the University of Toulouse and its higher education institutions.

Ministry of Higher Education and Research tools

Public Research Incubators

Public Research Incubators enhance and promote the transfer of technologies from public research laboratories to the socio-economic world. Created in 1999 they are part of the French Ministry of Higher Education and Research strategy of fostering the creation of innovative companies based on the results of public research or in conjunction with public research. Between 2000 & 2008, 4 500 projects have been accompanied by the 28 incubators in a wide range of topics.

Research Tax Credit

The Research Tax Credit (RTC) is a public measure carried by the French Ministry of Higher Education and Research to support the research and development (R&D) activities of companies. Staff costs of researchers and research technicians constitute eligible expenses covered by the Research Tax Credit. The rate of the tax credit is equal to 30% of R&D expenditure for a first tranche up to 100 million euros. Above this threshold, the rate of the tax credit drops to 5% of the amount of R&D expenditure.

Ministry of Finance, Economy and Industrial and Digital Sovereignty: The PACTE law

The “PACTE” law, Plan d'Action pour la Croissance et la Transformation des Entreprises, is a French law enacted in 2019. The PACTE contains a series of measures aimed at improving the growth and competitiveness of industries in France. Among the measures stablished by this law there are specific actions for the flexibilization of collaborations between expert academicians and industry. At ISAE-SUPAERO, this law has led to new frameworks allowing permanent academics to dedicate part of their full time to: the creation of spin-off startups, the participation in industry as advisors and the participation in the governance of a company (e.g., board of directors, etc).

National Agency of Technological Research: The “CIFRE” scheme

The CIFRE scheme (Industrial training agreement for research) is carried out by the National Agency of Technological Research (ANRT) and allows socio-economic structures to benefit from financial aid to recruit a doctoral student whose research project, carried out in partnership with an academic research laboratory over a period of three years, will lead to the submission

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of a thesis. The doctoral student devotes 100% of his/her time to his/her research work, shared between the socio-economic structure and the academic laboratory.

Other Knowledge-transfer tools

Various collaboration tools are framed by French law and accessible at the national level. Nowadays, researchers and entrepreneurs have access to a large panel of dedicated instruments to foster their collaboration:

- Research collaboration: Contract, which provides a framework for long-term research activity and is accompanied by an obligation of means on the part of the laboratory without any results guarantee. Everyone retains ownership of their prior knowledge and/or the material made available to the study, but the results of the study are held in joint ownership.
- Common laboratory: Long-term research collaboration (4-5 years) between an academic research laboratory and a company with a co-designed and co-directed research program and shared human, material and budgetary commitments.
- The Business license: Contract through which the owner gives a right to exploit an intellectual property title to a third party
- Service provision: Generally of short duration, it aims to carry out a study - commissioned by a socio-economic structure - by a public research laboratory or a platform
- Counselling team: Through this, a public research team will be able to carry out a consulting activity for the benefit of a company according to the terms of a contract
- Consulting: It is a purely intellectual consultancy service provided by a researcher on a personal basis, without using the resources of his/her laboratory, to a private or public third part

Implementation of tools and schemes by the University of Toulouse

Lab-Connect website

Lab-Connect is a research website carried by the University of Toulouse (UT) to develop interactions between the research units (research laboratories) of the UT establishments and the socio-economic stakeholders. The website presents a catalog of expertise, platforms, and research laboratories technologies developed by local players. The Valorization and Corporate Relations Department supports entrepreneurs from the definition of their needs to the connection with the most relevant research team or research platform, in connection with the relevant higher education institutions.

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Lanceur d'étoiles program

On the initiative of the University of Toulouse, 11 national and regional partners, experts in Aeronautics, Space & Defence and in the creation of start-ups (such as Toulouse INP, ISAE Supaero, TBS Education and Université Toulouse III Paul Sabatier) has enabled the creation of the "Lanceur d'Etoiles" scheme, which has the mission of guiding and assisting project bearers to propel their innovative technologies through deep tech start-ups that create value. So far, 7 startups are enrolled in the program and benefit from a tailored accompaniment.

University of Toulouse Chairs

A Chair refers to structuring partnerships mixes research and training in a specific field of research.

Currently, University of Toulouse/ISAE-SUPAERO has 7 such Chairs established with industrial partners such as Dassault Aviation, Airbus, Arianespace, Safran, Daher, etc. The SaCLaB Chair, for example, is supported by two global leaders of space industry: Airbus and Ariane Group and aims at advancing future space concepts at preliminary design and system level. University of Toulouse/ISAE-SUPAERO Industrial Partnership scheme aims at offering a way for industry and academics to work together towards common R&D goals by equally supporting a PhD scholarship. The scheme is funded through the discretionary research budget of University of Toulouse/ISAE's research departments and at least one industrial partner.

Moreover, in connection with the management of the laboratories and schools, University of Toulouse/Toulouse INP has set up a specific action in the strategic management dialogue concerning the development of industrial chairs, in order to widen the field of structuring and sustainable, multidisciplinary and transversal partnerships on our training, research and innovation missions. Two chairs operating within the University of Toulouse/Toulouse INP and supported by ANITI (the Artificial and Natural Intelligence Toulouse Institute) can be mentioned: aniti - data assimilation and machine learning et aniti - fusion-based inference from heterogeneous data.
The objective of the first chair is to promote synergy between data assimilation and machine learning to study new algorithms and their efficient implementation on modern computer architectures. In the field of AI, the aim is to study methods for introducing physical constraints into machine learning algorithms, and to prove their performance both theoretically and practically. The industrial partners of this chair are the following: ATOS, BRLi, Liebherr and Renault.

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Alongside industrial partners (NXP, CNES, CS group and Schlumberger), the main objective of the second chair is to develop learning algorithms capable of extracting meaningful information from multiple sources of multi-scale and multi-temporal data. Peculiar application contexts concern remote sensing for Earth Observation and automotive systems.

Furthermore, Sirius Chair is a corporate chair, based on an original public-private partnership between three major operators in the global space sector (CNES, Airbus Defence and Space and Thales Alenia Space) and two renowned higher education institutions: University of Toulouse/Toulouse 1 Capitole University and University of Toulouse/Toulouse Business School. It produces reference works, carries out studies commissioned by the French space industry and contributes to the training and information of the personnel concerned, within the framework of seminars or specialized workshops. The team is particularly focused on the legal, social, economic and managerial challenges of space activities and, more particularly, those raised by the generalization of satellite use and the multiplication of space applications. This Chair serves the European space industry, European space policies and the space powers.

Executive DBA

The University of Toulouse/TBS Education Executive Doctorate of Business Administration (DBA) is a 4-years professional doctorate programme. The programme includes 8 seminars of 36 hours. The research approach gives the decision-maker the tools to put forward hypotheses and to validate them scientifically to limit the risks of decision-making in an uncertain environment. Taught in English, the Executive DBA recruits international working executives and managers (with at least 5 years of professional experience) who are looking, through the writing of a thesis, to deepen an area of expertise based on their professional practice and the contributions of academic research. Since 2014, 105 students benefited from the programme and 33 have been graduated and supported their thesis (2 of them have a University of Toulouse/Tbs Education GEMBA diploma and one has also an ESTACA graduation in space). So far, 3 have done research on aviation and 1 on Space.

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Transfer: science and economy

The Research Management and Transfer Department at HHU aims to continuously promote the transfer of ideas, knowledge and technology between the university, business and politics. The objective of technology transfer is to make research findings available in as many different ways as possible and to put them into actual societal and entrepreneurial practice.
Industry projects involve an exchange between Heinrich Heine University Düsseldorf as a provider of research and development work and other services and a second organisation (normally a for-profit business) commissioning the University to perform the requested service for a fee.
In these cases, HHU presents itself as a business on the market and is obliged to act in accordance with the customary legal, fiscal and business practices. In particular, the fee paid to HHU in exchange for its services must be in line with market requirements.

Transfer: partnerships and networks

The HHU research portfolio benefits from a wide range of research collaborations with universities, independent research institutions and other regional, national and international partners from academia and industry. Heinrich Heine University Düsseldorf is also a partner in many specialist and cross-institutional networks.

Bachelor's and master's students regularly have the opportunity to listen to guest lectures by top-class speakers from science and practice and to take part in excursions to exciting companies combined with plant tours and a technical program. Students have also the chance to work on their projects and Master's Thesis as practical work in cooperation with companies, either in connection with an internship or during the semester.

Events

The Düsseldorf Campus Fair

The Düsseldorf Campus Fair is the central job and careers fair for Heinrich Heine University Düsseldorf, Düsseldorf University of Applied Sciences (HSD) and the Düsseldorf Chamber of Commerce and Industry. It has established itself as one of the leading recruitment fairs for students in and around Düsseldorf.

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At the Campus Fair, students and graduates from Düsseldorf and other nearby university cities can meet regional, national and international companies. Companies have the chance to present their recruitment and careers offers, internships and practical dissertation/thesis opportunities to around 1,500 students at more than 65 booths. HR managers are on hand to answer questions about starting your career.

The aim of the event is create a bridge between the business community and Düsseldorf universities to enable companies and graduates to establish successful relationships.

NextGenerationCFO – Die Campus Conference

Our Faculty of Business Administration and Economics yearly brings for students practical experience to the campus. At the Campus Conference Next Generation CFO (since 2015), students experience exciting presentations as well as the opportunity for active exchange between students and professionals. The event offers keynote speeches, parallel workshops and panel discussions on the challenges of CFO work. The event is aim at students as well as professionals in accounting, controlling and auditing.

The Career Service at HHU and cooperations with companies

The Career Service is part of Heinrich-Heine-University's Student Academy, and is therefore the main contact point for all queries regarding the transition from university to work. Its services can be used by students and graduates of all faculties for all queries in the fields of job market orientation, career management and career entry.

Careers Services offers in cooperation with companies: lecture series "Wege in den Job" - (Paths to a Job): a company is invited to the campus and has the opportunity to present itself, explain career entry opportunities and get in touch with students. Also field trips: some companies offer a field trip. Students have the opportunity to tour the company's work environment or production facilities.

Corporate cooperation in teaching

HHU, in particular, the Chair of Business Administration and Management, regularly hold seminars together with companies and incorporate guest lectures into several events.

Within the framework of seminars in cooperation with companies, teams of students develop practical recommendations and evaluate options for action on various aspects of sustainability

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management. In guest lectures, representatives from the field shed light on current topics and trends, thus entering into direct contact with our students.

Such cooperation offers many advantages: Students gain up-to-date insights into corporate practice and companies benefit from the direct exchange with highly qualified potential applicants. The sponsoring of seminars by companies in particular offers, in addition to the opportunity to make particularly intensive contact with our students, the possibility to gather fresh ideas and to comprehensively work on current entrepreneurial issues related to sustainability.

PhD students and corporates practical collaboration

The collaboration takes place between the doctoral student and a practice partner (e.g. company) and typically serves to scientifically work on a topic/question that is relevant for the practice partner. The structure ranges from a loose collaboration to financial support to a structured doctoral program (e.g. in the case of an industrial doctorate).

The German National Scholarship ("Deutschlandstipendium"): a joint-scholarship

Heinrich Heine University Düsseldorf's funding programme »Seizing Opportunities«, the German National Scholarship Programme at HHU, is geared towards high-performing students from all faculties. All students from the 1st semester of their Bachelor's studies up to completion of the Master's programme or up to the state examination can receive funding support.

The basis of this programme is the ″matching″ procedure: among other actors, also companies provide an x amount per scholar every month. The federal government subsidizes this amount with the same sum so that each scholarship recipient is supported with the double per month.

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University of Luxembourg

Partnership Programme

More information: https://wwwfr.uni.lu/snt/partnership_programme

An example of a technology transfer activity at the University of Luxembourg is the partnership programme that is run by the Interdisciplinary Centre for Security, Reliability and Trust (SnT), a research centre specializing in the domain of ICT. With the partnership program, SnT seeks to foster the production of innovative ideas, increase the depth and breadth of the competence of, and facilitate research in collaboration with established companies as well as new start-ups in the ICT industry.

Through the partnership programme, research is conducted jointly in partnered projects where SnT and partners (e.g., companies, public entities) contribute know-how and resources to achieve common goals. The partnership program follows the principle that excellent scientific research can address the most pressing challenges society faces and support the industry in developing research-based solutions. The partnership model enables truly collaborative exchanges, allows access to relevant challenges, real-world data, and systems to test our research results. The partnership programme also allows research activity to be leveraged with public research funding through the European Framework programmes, European Space Agency, and the National Research Funding Agency (FNR).

A typical project in the partnership program proceeds as follows: Together with the partner, a PhD student project is defined (max. 4 years duration) which is of interest to the partner and scientifically appropriate for a thesis. The project can also involve additional researchers such as Postdocs. Together, suitable researchers are recruited, and the project is often carried out both at the partner premises and at SnT. The staff hired as part of the partnership at the University of Luxembourg (PhD candidate, Postdoc) works in very close collaboration with the company, in part at the premises of the company, to ensure that the research conducted is closely aligned with the partner's business needs. This establishes a very close form personnel exchange between academia and industry that leads to very relevant research outputs. Figure 11 summarizes the benefits of the partnership program for SnT and the partner.

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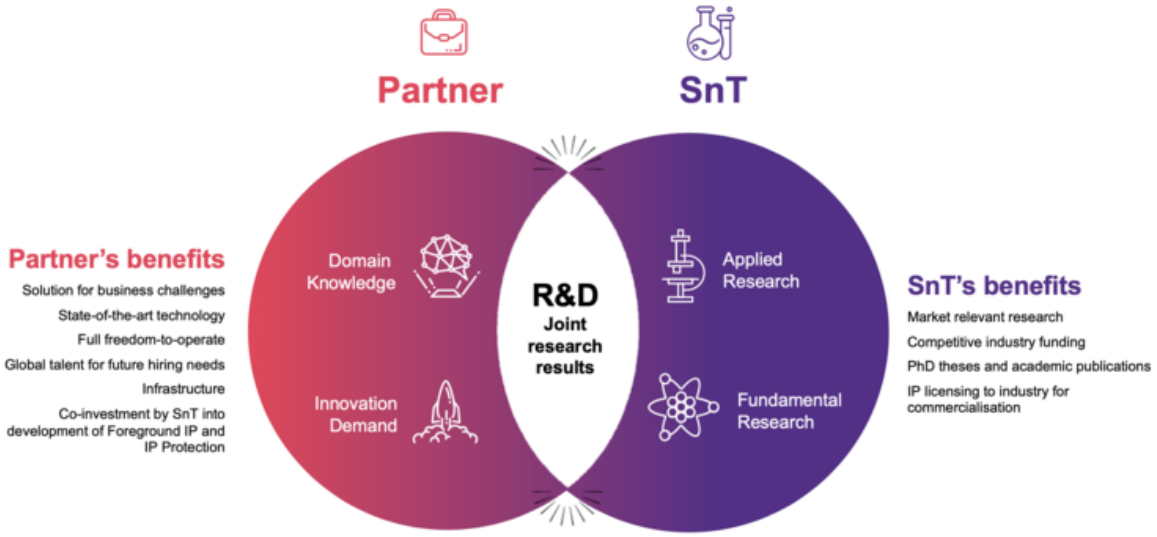

Figure 1 SnT and Partner collaboration

FNR Industrial Fellowships

More information: https://www.fnr.lu/funding-instruments/industrial-fellowships/

The main funder of research activities in Luxembourg is the Fonds National de la Recherche Fund (FNR, Luxembourg National Research Fund). The FNR has a specific funding scheme that seeks to stimulate the cooperation between Luxembourg based companies active in R&D and public research institutions, such as the University of Luxembourg: The Industrial Fellowships programme.

Specifically, the Industrial Fellowships programme awards PhD and Postdoc grants to researchers carrying our research in collaboration with a company that has a presence in Luxembourg. The Industrial Fellowships programme is open to all scientific domains.

The Industrial Fellowships programme has multiple objectives. For example, the programme seeks to support researchers by helping them to acquire skills and competencies for the private job market which they acquire when carried out research in close collaboration with companies. Also, the program seems to stimulate knowledge transfer between the industry and public research institutions, such as the University of Luxembourg.

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Teaching and outreach activities

More information: https://ism.uni.lu/

The University of Luxembourg is interested in delivering courses that meet the highest academic standards but are also connected to practice. One channel to stay connected to the industry is the involvement of practitioners in the courses, for example via guest lectures and case studies. For example, the Interdisciplinary Space Master (ISM) features technical and business lectures from experienced academic staff as well as external experts from the commercial space industry. For example, in courses related to the topics of Space Business and Entrepreneurship, guest lecturers present case studies (e.g., on business in the satellite industry), entrepreneurial finance, and entrepreneurship in the space industry. In addition, there is the possibility to carry out seminars and master's theses in close collaboration with industry partners.

Moreover, the staff at the University of Luxembourg regularly engages in a range of outreach activities. For example, the University of Luxembourg is typically present at outreach events such as the space resources week (https://www.spaceresourcesweek.lu/) or the Summer Space Festival (https://wordpress.summerspacefestival.eu/en/). The presence at such events enables the researchers to get into close contact with industrial partners to discuss and acquire joint research projects, and enables the University to recruit new students (e.g., Master's, PhD).

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Implementation doctorate

Implementation doctorates are an alternative way to obtain a doctoral degree. It is intended for people who - eager to develop their scientific career - do not want to give up their professional work outside the university. A doctoral student receives double remuneration. one - for work in the enterprise, the other - as part of a scholarship from the Ministry of Science and Higher Education. A doctoral student, working under the supervision of two supervisors – a scientific and an industrial one, prepares a doctoral dissertation, that aims to improve the operation of the company. AGH provides a program of implementation doctorate in AGH Doctoral School. A scheme supports doctorate studies which is realized by company staff at the University based on tripartite agreement between university, company and candidate.

Post diploma courses

Post diploma courses which are offered by AGH for graduates and employees of companies. In Poland such courses are organized by AGH according to obligatory in Poland rules and participants receive diploma. The course contains 180 hours (this is an obligatory number of class hours). The courses were very popular even 10 years ago, but are not often organized today. Student are obliged to pay for the courses a fee that covers all course cost.

Dual Studies

Dual education system is the way to combine study with practical training in companies. It is based on the study of the profession organized by a potential employer and on theoretical knowledge at the University. The Dual education system in Poland is offering three years of undergraduate program for which students not only attend lectures and classes, but also participate in practical knowledge courses offered by partner's company. Students work at the company, with which universities cooperate. The content of such dual study depends on university's decisions. However, as a rule, Polish universities have adopted the principle of three days of work and courses at the company and two days at University classes. Usually after completing two semesters at the university, they continue study in dual study scheme.
The main advantage of dual education scheme is opportunity to acquire by students' professional experiences, professional knowledge and practical skills under the supervision of specialists from companies. After completing the dual studies, the student has a diploma and work experiences. The next advantage for student is get paid for their work in amount to cover

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their living costs. Such a combination of work and study gives students an opportunity to develop their skills and experience to meet the expectations of current labor market.
AGH offers one program as dual study. It receives a very positive feedback from students and companies, where the graduates got employed afterwards.

Industrial internship for researchers from university

Industrial internship for university employees is required in Poland for professional advancement at the university. The employee is delegated to work in a company with a profile that uses the knowledge possessed by a research and teaching employee.
The university grants unpaid leave for the period of internship. The remuneration for the employee is paid by the company where the internship takes place. The internship lasts a minimum of 6 months to 2 years. The employee submits an application to the Rector, and the Rector grants a leave at the request of the faculty.

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Swedish Foundation for Strategic Research

One system in Sweden is the of a strategic mobility programme by the Swedish Foundation for Strategic Research (SSF). The strategic mobility program makes it easier for researchers from industry or academia/research institutes to work with the other party by SSF financing the salary costs covering a period of up to two years. Each grant within the programme covers the salary of a researcher during an exchange service period of four to twelve months in another sector than the one in which the person is currently active. During the exchange period, the visiting researcher shall conduct strategic research within one of the Foundation's spheres of responsibility. The allowed mobility exchanges in this program are as follows: Academia or research institute to/from industry or government agency.

Adjunct teachers

The position as adjunct teacher refers to a part-time teaching position occupied by a person who has their primary employment outside the higher education sector. Professors, senior lecturers, lecturers (and clinical lecturers) may hold an adjunct post. The duties of adjunct teachers normally comprise research, supervision and teaching.

Adjunct professor

Adjunct professors must be leading specialists in the field in which they have their principal employment. Adjunct professors must conduct high-quality activities within their subject area. When recruiting adjunct professors, especially in applied subjects, great importance is attached to advanced industrial experience or other activities outside the University. When assessing the candidates' competence, importance can be attached to skills other than scientific, artistic and teaching expertise. Such skills may comprise advanced artistic, technical or other professional skills that are important in view of the subject and the duties included in the appointment.

The appointment profile for an adjunct professor is normally more precisely defined than that for a professor. In cases where importance is attached to technical, artistic or other professional skills, particular attention should be paid to whether the candidates have made independent contributions to the development of their professional field and have established themselves as leading specialists in the field referred to in the subject description in the appointment profile.

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More details on the procedures can be found in the Appointment Procedure of Luleå University of Technology

Commissioned research

Commissioned research means research projects carried out by the University under a commission contract with a client. The University is legally obliged to charge fees for commissioned research corresponding to the University's costs for the project (full cost recovery).

Matchmaking events

Giron Space Organisation in Kiruna arranges events with matchmaking, like the lift-off event https://www.facebook.com/liftoffkiruna where companies present themself and creates matchmaking

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