



# NTNU

Det skapende universitet

## JOB ANALYSIS



URBAN DEVELOPMENT  
IN THE GLOBAL SOUTH  
URBAN DESIGN  
PHYSICAL PLANNING



Experis™  
ManpowerGroup

# NTNU – FACTS AND FIGURES

The Norwegian University of Science and Technology (NTNU) is Norway's primary institution for educating the nation's future engineers and scientists. The university also has strong programmes in the social sciences, teacher education, the arts and humanities, medicine, architecture and fine art.

NTNU's cross-disciplinary research delivers creative innovations that have far-reaching social and economic impact and help contribute to a better world.

## **Organization, budget and employees**

- 7 faculties and 48 departments.
- Annual budget NOK 6 billion.
- 5000 person-years, of which 3000 are in academic or scientific positions and 36 per cent are women.
- Close cooperation with SINTEF, an R&D organization with 1800 employees (both co-located with NTNU in Trondheim, and in Oslo).
- Facilities (owned or rented) totalling 604 000 m<sup>2</sup>.

## **Studies**

- Specialization in technology and the natural sciences.
- Also offers a range of bachelor's, master's and doctoral programmes in the humanities, social sciences, economics and public and business administration, and aesthetic disciplines.
- Professional degree programmes in medicine, psychology, architecture, the fine arts, music, and teacher education, in addition to technology.
- 23000 students, of which half studies technology and natural sciences.
- 6000 participants in further education programmes.
- About 4000 bachelor's and master's degrees awarded each year.
- About 2600 international students.
- Dozens of international student exchange programmes and more than 300 cooperative or exchange agreements with 60 universities worldwide.

## **Research, business and innovation**

- About 370 doctoral degrees awarded annually (40 % women).
- More than 100 laboratories.
- Participant in 105 projects in the European Commission's 7th framework programme.
- Sponsorship and cooperation agreements with Norwegian and international business and industry.
- The NTNU Libraries have 11 branches, 2.1 million printed volumes, 408 000 electronic books and 15 000 electronic journals.

# FACULTY OF ARCHITECTURE AND FINE ART

The faculty was founded in 1910 and is the oldest and largest institution educating architects in Norway. The Trondheim Academy of Fine Art became part of the faculty in 1996. Together we provide education and develop new knowledge by research, artistic development and innovation in the fields of Fine Art, Architecture and Urban & Regional Planning. At present we have about 130 staff members, 45 PhD's and 550 students.

## Our values

NTNU's vision is: Knowledge for a better world.

As a tool to achieve this, our faculty has developed a strategic compass where these three elements interact:

- **Form:** We give shape to our physical surroundings and will contribute to restore aesthetic authority in society.
- **Climate:** We work for a sustainable development and will seek climate-friendly solutions.
- **Impact:** We are willing and able to take leading roles in society in order to promote aesthetic authority and sustainability.





### **Strategic thematic fields**

NTNU has defined four cross-disciplinary thematic fields:

- Sustainable societal development
- Energy
- Health, welfare and technology
- Ocean space

Our faculty is actively engaged in the three first fields and has formulated five strategic/thematic fields including research, artistic development, innovation and education:

- Cities of the future
- Sustainable architecture
- Architecture and health
- Art and culture as a pillar of society
- Innovative learning

### **Research and artistic development**

The faculty hosts two research centers on international top level:

- ZEB (Zero Emission Buildings) <http://www.zeb.no>
- Metamorphosis, on real estate development and facilities management. <http://www.metamorfose.ntnu.no>

In addition we have a leading role at NTNU in developing Smart and Sustainable Cities. Our recently founded center on innovative learning, TRANSark, investigates the “next practice” in learning. <http://www.ntnu.edu/transark>

Our scientific and artistic staff and PhD's develop new knowledge in many fields: artistic production, energy in buildings, housing, building processes, transformation & conservation, bottom up planning and smart cities – to name a few.

The faculty is a key player on the art scene in Trondheim and also on national and international arenas. Our staff creates art and architecture of high standard exhibited globally.

We also collaborate on hosting conferences such as the yearly ZEB conference, HolzBauForum Nordic in Trondheim and The TAF celebration of architecture at Røros.

### **Education**

We offer several study programs on master and bachelor level in Fine Art, Architecture, Sustainable Architecture (energy & CO2), Real Estate and Facilities Management, Physical Planning (top down) and Urban Ecological Planning (bottom up). We encourage our students to develop an entrepreneurial mindset, to be explorative and to collaborate.

### **Organization**

We have a diverse and international staff and are organized in five departments:

- Architectural Design and Management
- Architectural Design, Form and Colour Studies
- Architectural Design, History and Technology
- Urban Design and Planning
- Trondheim Academy of Fine Art

The faculty board has both internal and external representatives and is led by chairman Nils Marstein. The faculty is headed by Dean Fredrik Shetelig.

### **Department of Urban Design and Planning**

The staff at the department is:

5 Professors 100%  
3 Associate professors 100%  
1 Associate professors 20%  
2 Scientific assistants  
1 Post.docs  
7 PhD's

The Department of Urban Design and Planning is one of five departments at the Faculty of Architecture and Fine Art. Its area of academic expertise is physical planning at the local and regional level. It has national and international projects in research, analysis and teaching in planning with a sustainable perspective.

The department strives to develop and professionalize physical planning as an answer to local and global environmental concerns and to the challenges of poverty mitigation.

The department's main focus is education in physical planning of students of architecture and civil engineering at undergraduate, graduate, and PhD-level. The department contributes with courses like "City and Town Planning" and "Urban Design studio" to the Master of Architecture and the Master in Technology. In addition it has two of its own Master's programmes. The first, "Master in Physical Planning" (Master i fysisk planlegging) is directed at students from other disciplines, who take a two-year specialization in planning in the Norwegian context. The other, "Master in Urban Ecological Planning" deals with urban growth and the challenge of urban poverty in the Global South. In this program both Norwegian and international students enroll.

The department works with issues that by their very nature require both inter- and cross-disciplinary thinking. It is our aim to strengthen this perspective. The department is an important source for new knowledge in urban and regional planning in the national context and is working towards further developing its international cooperation through initiatives such as the recent inclusion of NTNU as a "Habitat University" of the UNCHS.

**The department is responsible for the following study programmes:**

- Master of Urban Ecological Planning (2 years programme)
- Master in Physical Planning (2 years programme)

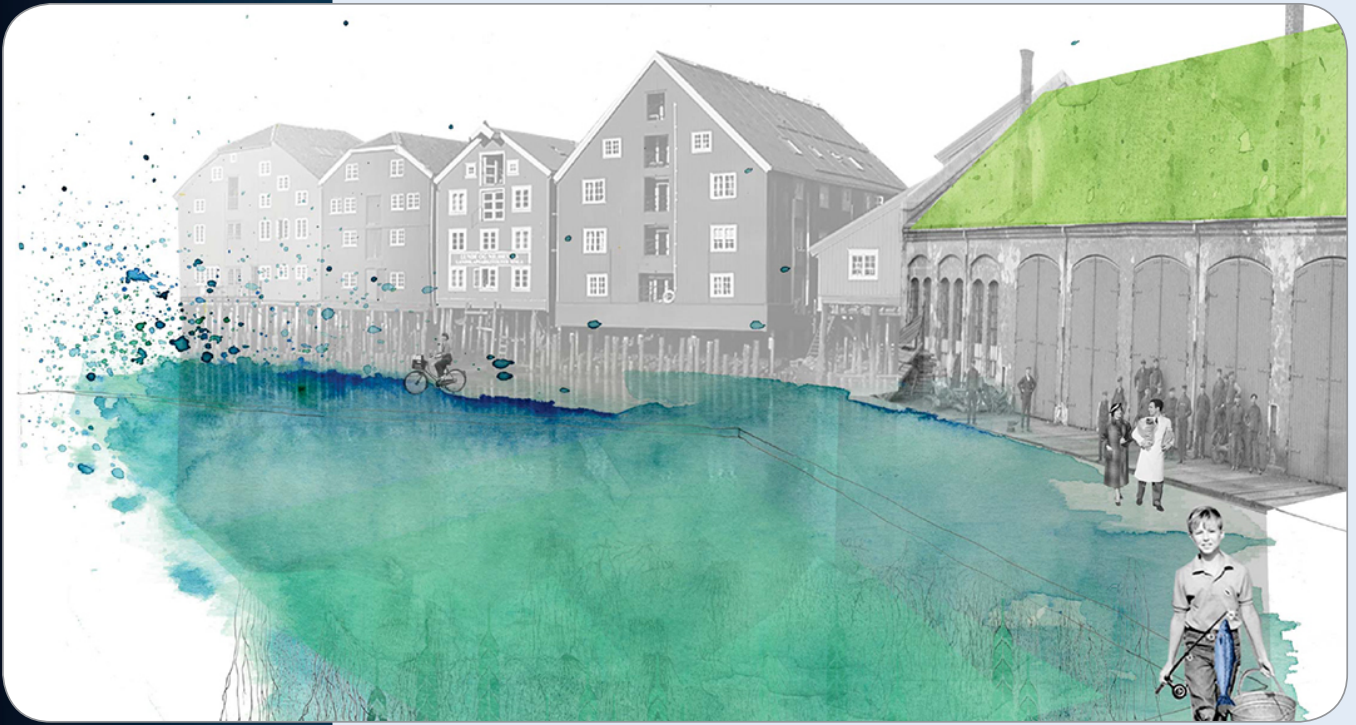
The department engages in the following study programmes:

- Master in Architecture (5 years programme)  
Basic/ advanced courses and Master's dissertation in Urban Design and Planning

Specialization in Real Estate Development and Management

- Master in Technology (5 years programme)  
Courses in Civil and Transport Engineering and Geomatics  
Specialization in Real Estate Development and Management

Additionally has the department a leading role in NTNU's cross disciplinary thematic field of "Sustainable societal development", more detailed in leading the sub-area on the topic of "Sustainable urban development". The departments researchactivities



## ABOUT THE POSITIONS

The Faculty of Architecture and Fine Art is proud to announce three (Associate) Professor positions at the Department of Urban Design and Planning:

- Sustainable Urban Development in the Global South
- Physical Planning
- Urban Design Job offer

The applicants should clearly indicate for which of the three positions they are applying for.

All three positions is a 100% fixed term of six years.

### **Information about the Faculty**

The main fields of expertise at the Department of Urban Design and Planning are planning theory, land use and transportation planning, urban resilience, globalisation and urban development, architecture and urban design. These fields are the subject of science and practice based research and form part of three Masters programmes: Architecture, Physical planning, and Urban Ecological Planning, as well as Bachelor and PhD education, in cooperation with other disciplines as Civil Engineering, Geography and Natural Resource Management. The successful applicants will participate in cross-faculty, interdisciplinary initiatives such as NTNU's Sustainability and the Smart Sustainable Cities group. For further information regarding the Faculty, Department, NTNU Sustainability and Smart Sustainable Cities, please visit: <http://www.ntnu.edu/ab/about-the-faculty>, <https://www.ntnu.edu/bp>, <http://www.ntnu.edu/sustainability> and <http://www.smartsustainablecities.org>.

# 1. PROFESSOR/ASSOCIATE PROFESSOR SUSTAINABLE URBAN DEVELOPMENT IN THE GLOBAL SOUTH

## **Programme**

Urban Ecological Planning (UEP) <http://www.ntnu.edu/studies/msa1>, is a practice-based program that enables students to develop skills and knowledge to address complex urban issues in rapidly changing social, cultural, political and environmental contexts of the Global South. The program uses an integrated approach to strategic spatial change, with a specific focus on participatory, inclusive and developmental planning practice. Research in Urban Ecological Planning focuses on four specific aspects of informality in urban areas, namely:

- access to land for the urban poor;
- planning in situations of crisis and uncertainty, such as post-disasters, and conflict;
- participatory processes in planning for excluded and marginalised communities;
- and institutional alternatives for planning in resource scarcity.

The program cooperates closely with the Live Studio initiative of the Faculty of Architecture and Fine Art (<http://ntnulivestudio.org/>). This is an award winning education initiative of the Faculty where students of architecture and planning work in collaboration with staff to implement projects of strategic spatial nature in Norway and abroad. The UEP program provides the empirical and theoretical basis for this initiative.





### Position

The selected candidate will develop interdisciplinary research and teaching in the areas of urban ecological planning and sustainable urban development in a global context.

He/she will contribute to the international Masters program in Urban Ecological Planning and other relevant courses at the Faculty, for both international and Norwegian students. In addition, the selected candidate has the responsibility to develop new courses in the above fields, along with leading field and practice based courses, and supervising Masters and PhD research. He/she will further disseminate alternative approaches to planning developed in the program and foster partnerships with international universities and civil society organisations, in order to further enhance the outreach of the program. Dissemination will also take place through frequent publications of education and research outcomes in peer reviewed journals.

The candidate will be responsible for ambitious research in the field, and acquiring new research project funding, in cooperation with peers at the Faculty, NTNU and stakeholders. The candidate will cooperate closely with NTNUs strategic area of 'Sustainable Urban Development' (<https://www.ntnu.edu/sustainability>) and international agencies such as the Norwegian Refugee Council, in line with the internationalisation strategy and social responsibilities of NTNU.



### **Qualifications**

The applicant should have a spatial understanding of complex urban challenges in the Global South and be able to demonstrate the competence of conceptual flexibility across sectoral fields of inter related knowledge. Specific relationships of interest in the program are among social cultural and political drivers and spatial change and environmental conditions. Plans for further development of the program include developing courses on planning in situations of contingencies and rapidly changing contexts, project development and management as well as practice based courses for negotiations and participation in multi-stakeholder processes.

International, applied experience in the Global South, either in research or development practice, is essential. The candidates research/practice profile may be diverse but key areas of interest are:

- Planning for sustainable and inclusive urban infrastructure in informal settings, as complementary to formal planning
- Participatory methods and approaches for inclusive processes in urban planning and management
- Development of projects and partnerships in multi stakeholder processes in an institutional setting of network governance.

An interdisciplinary academic and research background would be preferred with a basic education in architecture or urban planning, but applicants with other backgrounds are also encouraged to apply. The candidate should hold a PhD in a relevant field.



## 2. PROFESSOR/ASSOCIATE PROFESSOR IN PHYSICAL PLANNING

### **Programme**

The Physical Planning programme centres around the shaping of our future physical surroundings, which influence greatly people's everyday lives through the availability and quality of housing and business areas, mobility and accessibility of jobs and services, quality of public space and environment, and an impact on sustainability aspects such as climate change and resource efficiency, but also on economic competitiveness and social cohesion. The quality of the physical environment is a main factor for present day societies' performance and for the quality of life of its citizens. The programme brings together policy, research and urban or regional (re)design by an interdisciplinary approach to evidence-based, open planning processes, which take into account the different, possibly conflicting interests of stakeholders. Urban/regional knowledge generation in the form of spatial analysis, scenarios, evaluations, modelling and tool development, and support of innovative governance models form the main pillars of this approach. Focus of research and teaching in the program is on:

- integration of different current and future requirements for our physical environment when developing master and local or regional plans;
- planning processes, preparation and drafting of spatial/land use plans and application of building regulations;
- the role of Geo-ICT and geo-information in physical and transport planning as visualisation, dialogue and modelling tool;
- engagement of, and informal interaction with, communities in open planning processes.

The programme provides qualifications in physical planning according to the Norwegian Planning and Building Act as a two-year Master's degree in Physical Planning, alongside courses on the general planning process. It caters for students with different academic backgrounds, such as architecture, real estate, engineering, transport studies, social sciences, arts, cultural heritage, landscape architecture and planning, ecology, and macro economy.

### **Position**

The selected candidate will develop interdisciplinary, societally relevant applied research, teaching, and develop the Department's academic profile. Research and teaching focus on how interventions through physical planning can contribute to quality of the physical environment and the quality of life for its citizens, now and in the future, given the complex interrelationships between present urban fabric and urban structures, society. The candidate is involved in developing new research themes such as sustainability, energy efficiency and Smart Cities, from the perspective of physical planning. The candidate has to have practical experience in the planning process and the preparation of plans. Candidates with experience in academic publishing, acquiring research funding and carrying out research projects will be favored. The selected candidate will participate in and develop relevant interdisciplinary research networks in the field at NTNU, in Norway and internationally. These networks also involve relevant government agencies and industry. The candidate is expected to initiate positioning activities towards Norwegian and international networks such as CIENS, Joint Programming Initiative Urban Europe, Urban Europe Research Alliance, and European Innovation Partnership Smart Cities and Communities. The position's teaching responsibilities lie within topics such as urban theory and planning. In addition, the candidate teaches within the Master's program of Physical Planning on strategic planning and the Norwegian Planning and Building Act. The candidate is expected to supervise masters and PhD-candidates, and contribute to post-graduate courses.

### **Qualifications**

The candidate has to hold a PhD, and has experience in a relevant field such as physical, urban or transport planning, real estate, architecture, geography or engineering. Next to educational and teaching experience, competences in planning methodologies, use of geo-information technology and engagement of urban stakeholders are essential. He/she must be able to document relevant practical pedagogical skills at the highest level, based on education or teaching and supervision. The candidate has the ability to initiate and lead research, innovation and teaching in this field, and has documented relevant practical pedagogical skills. He/she has to have expertise in the Norwegian Planning and Building Act (PBL), or is prepared to obtain sufficient knowledge of it to teach within this field within one year. The candidate should have the ability to work across traditional disciplinary boundaries, contribute to the working environment with a positive attitude, be flexible and have good communication skills.



### 3. PROFESSOR/ ASSOCIATE PROFESSOR IN URBAN DESIGN

#### **Programme**

The Urban Design Programme works at the interface between architecture and urban planning, focusing on the transformation and further development of our cities and urban landscapes. The main subject is the shaping of ensembles of buildings and open spaces, whole districts or entire cities in order to provide coherence and allow for adaption over time. Based on the context of a place, the programme develops concepts, strategies, and design rules for public spaces and landscapes, spatial structures and morphologies, uses and activities, mobility and other infrastructures – both existing and new – and integrate them into resilient urban design proposals. Urban processes driving (re) design are growth, revitalisation, densification, accommodation of multiple functions, but also shrinkage, reconstruction and renaturing. The existing urban fabric has often already been 'redesigned' and comprises various 'historical layers' in which traditions are of importance. Analysis of the historical stratification is important for exposing spatial structures and form types that still have significance for the city's use and identity. Morphological and typological research therefore plays a significant role in the urban design programme. Due to the emphasis on form, structure and meaning, a close cooperation with other disciplines such as landscape architecture, civil engineering, cultural and sociological studies is a necessity.

#### **Position**

The selected candidate will contribute to high-quality urban design research, teaching and practice in an interdisciplinary context. These activities will focus on how urban design and local identity can contribute to liveable, sustainable and resilient cities with a sound quality of (public) space and urban environment, and engaged communities. The candidate will work on better integration of urban knowledge into innovative urban designs, in particular for densification, transformation and restructuring projects. He/she will develop designs by research and use practice-based teaching methods. Research and teaching focus on how interventions through urban (re)design can contribute to the quality of the urban environment and the quality of life for its citizens, now and in the future. The candidate will help to develop new research themes in urban design such as community

engagement, urban visualisation and dialogues, energy efficiency and Smart Cities, and overall sustainability. Next to practical experience in urban design, the successful candidate must show achievements in academic publishing, acquisition of third-party funds and conducting of research and design projects. The selected candidate will participate in and develop relevant interdisciplinary research networks in the field at NTNU, in Norway and internationally. These networks also involve relevant government agencies and businesses. The candidate is expected to initiate positioning activities towards international networks such as Joint Programming Initiative Urban Europe and Urban Europe Research Alliance. The positions teaching responsibilities lie within basic architectural courses, on topics such as urban history, and the Master's Programs of Architecture and Physical Planning. The candidate is expected to supervise masters and PhD-candidates, and contribute to post-graduate courses.

### **Qualifications**

The candidate holds a PhD, and has experience and outstanding achievements in professional practice, academic research and teaching in a relevant field such as architecture, design, planning, cultural heritage, landscape architecture, participatory design and stakeholder management, urban visualization and dialogues. The successful candidate will teach and develop principles, methods and concepts in urban design projects, and provide methodological education in both bachelor and master's degree programs in architecture, physical planning and urban ecological planning. He/she must be able to document relevant practical pedagogical skills at the highest level, based on education or teaching and supervision. The candidate has the ability to initiate and lead innovative research and teaching, and to work across traditional disciplinary boundaries. He/she contributes to the working environment with a positive attitude, be flexible and have good communication skills.

### **Application**

The application must include:

- A description of your plans and vision for this position
- Documentation of architectural / scientific / educational work (up to 10 works)
- A description of architectural works and / or scientific works and / or pedagogical development, or other relevant work that the applicant feels is most significant for the position. The documentation must contain a description of the applicant's role in the project.
- Account of pedagogical skills and experience.
- CV and a complete list of publications with information on where the work is published.
- Certificates and diplomas

Selected applicants are invited for an interview and trial lecture.

Further details about the position can be obtained from the head of the Department of Urban Design and Planning, Judith Borsboom, phone, +47 73 59 5022 or mobile phone, +47 90228936.

### **Terms of employment**

Academic staff who are employed without having a formal pedagogical qualification in university-level teaching and are unable to document equivalent qualifications, are required to successfully complete recognized course that gives a pedagogical qualifications in university-level teaching within two years of taking the appointment. The University offers such courses. ("Documentation of an applicant's pedagogical qualifications") which can be obtained from the following address on internet: <http://www.ntnu.edu/vacancies/pedagogical-qualifications>

The position as Associate Professor is registered as code 1011 or Professor, code 1013 are paid in accordance with the Norwegian state salary scale. There will be a 2% contribution to the Norwegian Pension Fund from the gross salary. As a member of the Norwegian Public Service Pension Fund you are offered:

- A good pension for life
- A favorable housing loan interest
- Good insurance schemes

It is a prerequisite that the person appointed resides in a location enabling him/her to be present at and available to the institution.

The appointment is subject to the conditions in effect at any time for employees in the public sector, and the person appointed must accept any changes in the field of work, such as: changes due to developments in the subject area, the organizational changes that may result from decisions regarding the department's and the university's activities and change due to the future development of the study programs.

It is a prerequisite that within three years of appointment, new employees who do not speak a Scandinavian language can demonstrate skills in Norwegian or another Scandinavian language equivalent to Level 3 in the course in Norwegian for speakers of other languages at the Department of Language and Communication Studies. The University offers such courses.

The appointment is to be made in accordance with the regulations in force concerning State Employees and Civil Servants. The employee is expected to accept possible changes in work tasks.

The position adheres to the Norwegian Government's policy of balanced ethnicity, age and gender.

Under the new Freedom of Information Act, information about the applicant may be made public even if the applicant has requested not to have his or her name entered on the list of applicants.

The application, with all attachments, must be submitted electronically through this page and mark the application with correct reference number [AB]-04-16

Application deadline June 5th, 2016.



# THE RECRUITMENT PROCESS

Experis Executive is NTNU's partner in this recruitment process. We are the largest recruitment company in Norway, and are specialists in management recruitment. Experis Executive has extensive experience with recruiting managers at all levels. We know the higher education sector, and the public sector well, and NTNU in particular.

We will be there for you throughout the process and provide advice and guidance along the way. It will be prepared a public list after the deadline, but all inquiries and conversations around the position are treated with confidentiality in the initial phase. This means that Experis Executive guarantees confidentiality until we agree on otherwise with prospective candidates. Interested candidates can then seek more information about the position, without the client being notified of potential interest.

Experis Executive will have initial interviews with potential candidates. This gives us the opportunity to consider whether they have the right profile, and it gives the candidate the opportunity to consider the job opportunity thoroughly. These conversations take place without inspection by or reporting to the principal.

If a candidate wishes to be kept of the public list, this must be stated and justified in the application. Information may be made public even if a candidate has asked to be kept of the list of applicants. However, it will be notified if the desire of reservation is not upheld.

See **[www.experis.no](http://www.experis.no)**  
for more information about the company we represent.

## **Project Manager**

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## **Researcher**

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