

**Jobbnorge ID:** 246234  
**Deadline:** 6/25/2023  
**Website:** <http://www.uia.no>  
**Scope:** Fulltime  
**Duration:** Temporary

## PhD Research Fellow in Civil and structural engineering

### About the position

A fixed-term 100% position is available at the University of Agder, [Faculty of Engineering and Science](#) as a PhD Research Fellow in Civil and Structural engineering, affiliated with the [Department of Engineering Sciences](#), for a period of three years. The position is located, at the present, at Campus Grimstad. The starting date is as soon as possible or to be negotiated with the faculty. The position will be in collaboration with two ongoing research projects related to circular economy within road construction.

### Responsibilities

Circular economy is increasingly being integrated into society but with slow adoption in more conservative industries, such as construction and construction engineering. Circular economy initiatives in the road construction sector represent an emerging field of research within the broader discipline of sustainability engineering. In Norway, authorities and construction firms are working together to reduce emissions and improve the circularity of road construction through innovative tender processes, new regulations, and new technologies and processes. It is important that these new technologies are both sustainable and cost-effective in order to be implemented in the future. Two ongoing projects at the University of Agder are studying and pursuing new ideas related to the circularity of road construction.

The GoGreen project is a collaboration with construction firm Bertelsen & Garpestad (B&G), the University of Agder, and NAV. [GoGreen](#) is designed to implement circular economy principles into road construction and building sites in an effort to prepare B&G specifically, and the construction industry more broadly, towards sustainable, intelligent, material efficient construction and waste management processes. [The Green Platform project "Sustainable Road Construction"](#) is a collaboration project led by Nye Veier in partnership with 15 companies and research organizations that is designed to develop, evaluate, and industrialize new sustainable and circular road construction technologies. In both of these projects, UiA is responsible for carrying out sustainability assessments of the technology being used and to develop circular construction concepts for the road construction industry.

The University is now offering a PhD position related to circular road construction. The successful candidate will be cooperating with both the above mentioned projects.

The main topics to be investigated within this PhD position are related to:

- Determining how circular design principles for road construction can best be implemented within individual Norwegian road construction companies
- Determining metrics for measuring circular economy in road construction and measuring circularity for individual Norwegian road construction companies and road projects
- Quantifying emissions of newly developed technologies and road construction techniques using life cycle assessment
- Determining how to best implement circular economy concepts in the broader road construction industry such as new regulations, incentive structures, green public procurement schemes, and new policy recommendations

A prerequisite for employment is that the candidate is to be admitted to [UiA's PhD programme at the Faculty of Engineering and Science](#).

### Required qualifications

Master's degree in Civil and structural engineering. This year's candidates/candidates who are in the closing stages of their master's degree can also apply.

- The average grade of the Master's study should be B or above.
- International applicants who are not exempt from the English language requirements pursuant to the guidelines of the Norwegian Agency for Quality Assurance in Education (NOKUT), must document this through one of the following tests with the stated results or better:
  - TOEFL - Test of English as a Foreign Language with a minimum score of 600 for the Paper based Test (PBT), or 92 for the Internet-based Test (iBT)
  - IELTS - International English Language Testing System, with the result of 6.5
- A major research method will be interview, conducted towards persons who only speak Norwegian. Hence, applicants must master Norwegian or another Scandinavian language fluently, both oral and written.

Further provisions relating to the positions as PhD Research Fellows can be found in the [Regulations Concerning Terms and Conditions of Employment for the post of Post-Doctoral Research Fellow, Research Fellow, Research Assistant and Resident](#).

## Desired qualifications

- Experience working with circular construction concepts.
- Experience with road construction planning, technologies and techniques in the Norwegian context, including knowledge of Norwegian national road design handbooks and national transport planning documents.
- Experience with life cycle assessment and/or circularity measures in the built environment
- Experience with interviews within a research context

## Personal qualities

- Ability to work independently and proactively for goal-oriented research.
- Have good teamwork skills and inventiveness.
- Close working relationships with both industrial and academic partners.
- Good analytical skills.
- Good written and verbal communication skills in an academic setting.

Personal qualities and suitability for the position will be emphasised.

## We offer

- professional development in a large, exciting and socially influential organisation
- a positive, inclusive and diverse working environment
- modern facilities and a comprehensive set of welfare offers
- membership of the [Norwegian Public Service Pension Fund](#)

[More about working at UiA.](#)

The position is remunerated according to the State Salary Scale, salary plan 17.515, code 1017 PhD Research Fellow, NOK 532 200 gross salary per year. A compulsory pension contribution to the Norwegian Public Service Pension Fund is deducted from the pay according to current statutory provisions.

## General information

UiA is an open and inclusive university. We believe that diversity enriches the workplace and makes us better. We, therefore, encourage qualified candidates to apply for the position independent of gender, age, cultural background, disability or an incomplete CV.

Women are strongly encouraged to apply for the position.

The successful applicant will have rights and obligations in accordance with the current regulations for the position, and organisational changes and changes in the duties and responsibilities of the position must be expected. The engagement is to be made in accordance with the regulations in force concerning the acts relating to [Control of Export of Strategic Goods, Services and Technology](#). Appointment is made by the University of Agder's Appointments Committee for Teaching and Research Positions.

Short-listed applicants will be invited for interview. With the applicant's permission, UiA will also conduct a reference check before appointment. [Read more about the employment process.](#)

In accordance with the Freedom of Information Act § 25 (2), applicants may request that they are not identified in the open list of applicants. The University, however, reserves the right to publish the names of applicants. Applicants will be advised of the University's intention to exercise this right.

## Application

The application and any necessary information about education and experience (including diplomas and certificates) are to be sent electronically. Use the link "**Apply for this job**".

The following documentation must be uploaded electronically:

- Certificates with grades
- Master's thesis
- References
- Updated CV with a list of publications (if any)
- Project description with a maximum scope of up to three pages, including reference list. The outline should present and discuss possible research questions, theory perspectives, material, a progress plan, and methods within the given framework
- Any other relevant documentation

The applicant is fully responsible for submitting complete digital documentation before the closing date. All documentation must be available in a Scandinavian language or English.

**Application deadline: 25.06.23**

## Contact

For questions about the position:

- Reyn O'Born, tel. +47 37 23 34 38, mobile +47 451 28 535, e-mail [reyn.oborn@uia.no](mailto:reyn.oborn@uia.no)

- Rein Terje Thorstensen, tel. +47 37 23 32 16, mobile +47 909 32 669 e-mail [rein.t.thorstensen@uia.no](mailto:rein.t.thorstensen@uia.no)

For questions about the application process:

- HR-adviser Linda H. Kristiansen, mobile 48 14 06 09, e-mail [linda.h.kristiansen@uia.no](mailto:linda.h.kristiansen@uia.no)

## University of Agder

The University of Agder has more than 1500 employees and almost 14 000 students. This makes us one of the largest workplaces in Southern Norway. Our staff research, teach and disseminate knowledge from a variety of academic fields. Co-creation of knowledge is our common vision. We offer a broad range of study programmes in many fields. We are situated at two modern campuses in Kristiansand and Grimstad respectively.

We are an open and inclusive university marked by a culture of cooperation. The aim of the university is to further develop education and research at a high international level.

### Additional information

#### Place of service:

Jon Lilletunsvei 9 4879 Grimstad (Grimstad Municipality)