

**10 PhdCMarie Sklodowska-Curie positions available – CIRCOPAV DN project  
HORIZON – MSCA – 2021 – DN**

---

**Where to apply**

Application Deadline: 25/11/2022 13:00 - Europe/Brussels  
Contact Details

**Where to send your application:**

**COMPANY**

“Circular and Connected Pavements for Carbon-Neutral and Digitalised Roads”  
101072820– CIRCOPAV. HORIZON – MSCA – 2021 – DN

**Email:** [circopav@ugr.es](mailto:circopav@ugr.es)

**Hiring/Funding Organisation/Institute**

**ORGANISATION/COMPANY**

“Circular and Connected Pavements for Carbon-Neutral and Digitalised Roads”  
(CIRCOPAV) Horizon-MSCA-2021-DN-101072820

COUNTRY: Spain

CITY: Granada

POSTAL CODE: 18071

STREET: C/ Cuesta del Hospicio s/n

ORGANISATION TYPE: Other

WEBSITE. <http://www.ugr.es>

E- MAIL:

[circopav@ugr.es](mailto:circopav@ugr.es)

Circular and Connected Pavements for Carbon-Neutral and Digitalised Roads



Beneficiaries  
Worldwide Leading Research Experts in CIRCOPAV



Associated Partners  
Academic and Industrial Specialists in Digitalisation and Sustainability



Advisory Board  
Academia, Industry, Infrastructure Managers and Stakeholders

Dissemination & Outreach  
International Associations

CIRCOPAV is a Doctoral Training Network that aims to provide high-level international, inter-disciplinary and inter-sectorial and training to ten doctoral candidates to achieve Circular and Connected Pavements for carbon-neutral digital roads. The network is composed of 8 universities, 8 industrial companies and a road administration, across 8 countries and 3 continents, and combine the transportation, construction engineering, sustainability, electronics and data science sectors to create a new generation of creative, entrepreneurial and innovative leaders for the next generation of roads. More information about the network can be found at CIRCOPAV Website (coming soon) and <https://cordis.europa.eu/project/id/101072820>

**CIRCOPAV invites applications for 10 PhD candidates (PhdC)** positions available, being the estimated starting date 1<sup>st</sup> of February 2023 and the duration 3 years.

CIRCOPAV project provides research and training opportunities for **PhD candidates (PhdC)** in the fields of transportation, civil engineering, sustainability, electronics and data science. The aim of the research programme is to provide the **PhdCs** with the practical skills and knowledge so that they can perform top-level research, both in the academic and non-academic sectors. In addition, inter-sectorial collaboration is promoted through short-term secondments between academic and non-academic participants. All ESRs will also have the opportunity to enroll for a PhD degree. A description of the individual projects associated to each **PhdCs** position is given below:

**PhdC1 Capitan:** Collaborative Auscultation of Pavement Infrastructures Through the Application of Navigators. Position details:

1. Main Supervisors: Prof. Fernando Moreno-Navarro (University of Granada, Spain) & Prof. Francisco Gámiz.
2. Email for informal inquiries: [fmoreno@ugr.es](mailto:fmoreno@ugr.es)
3. Work Location: LabIC.UGR, Universidad de Granada, C/Severo Ochoa s/n, 18071 Granada (Spain)
4. Specific requirements: Master or Equivalent degree in Civil Engineering, Mechanical Engineering (or equivalent).

**PhdC2WaveRoad:** Digitalization of roads structures for non-destructive analysis: from laboratory to road. Position details:

1. Main Supervisor: Prof. Cedric Sauzeat (ENTPE, France)

## CIRCOPAV

### 10 PhdMarie Sklodowska-Curie positions available- CIRCOPAV DN project

2. Email for informal inquiries: [cedric.sauzeat@entpe.fr](mailto:cedric.sauzeat@entpe.fr)
3. Work Location: Uni. Lyon / ENTPE. Vaulx-en-Velin (Lyon, France)
4. Specific requirements: Master or Equivalent degree in Civil Engineering, Mechanical Engineering (or equivalent).

**PhdC3I\_AM\_PAVE:** Interactive Analysis System for the Management of Pavements.

Position details:

1. Main Supervisor: Prof. M Wistuba (Technische Universität Braunschweig, Germany)
2. Email for informal inquiries: [s.trifunovic@tu-bs.de](mailto:s.trifunovic@tu-bs.de)
3. Work Location: Braunschweig Pavement Engineering Centre, Technische Universität Braunschweig, Braunschweig, Germany.
4. Specific requirements: Master or Equivalent degree in Master or Equivalent degree in Engineering or equivalent degree.

**PhdC4SN4SI:** Sensors Network for Smart Self-Sustaining Interactive Infrastructures.

Position details:

1. Main Supervisor: Prof. Gabriele Tebaldi (University of Parma, Italy)
2. Email for informal inquiries: [gtebaldi@unipr.it](mailto:gtebaldi@unipr.it)
3. Work Location: Department of Engineering and Architecture, University of Parma, Parma, (Italy)
4. Specific requirements: Master or Equivalent degree in Engineering or equivalent degree.

**PhdC5DDM-BM:** Dynamic Interactive Digital Monitoring Systems for Bridge Management. Position details:

1. Main Supervisor: Prof. Francesco Freddi (University of Parma, Italy)
2. Email for informal inquiries: [francesco.freddi@unipr.it](mailto:francesco.freddi@unipr.it)
3. Work Location: Department of Engineering and Architecture, University of Parma, Parma, (Italy)
4. Specific requirements: Master or Equivalent degree in Engineering or equivalent degree.

**PhdC6EcoSmartRoads:** Multifunctional urban pavements to promote circular economy in smart cities. Position details:

1. Main Supervisor: Prof. M.C. Rubio-Gámez (University of Granada, Spain)
2. Email for informal inquiries: [mcrubio@ugr.es](mailto:mcrubio@ugr.es)
3. Work Location: LabIC.UGR, Universidad de Granada, C/Severo Ochoa s/n, 18071 Granada (Spain)
4. Specific requirements: Master or Equivalent degree in Engineering, Architecture or equivalent degree.

**PhdC7. HealthyPave:** Real-Time Quality Management for Sustainable Pavements.

Position details:

1. Main Supervisor: Prof. J.K. Jenkins (Stellenbosch University, South Africa)
2. Email for informal inquiries: [kjenkins@sun.ac.za](mailto:kjenkins@sun.ac.za)
3. Work Location: Stellenbosch University (SU), Stellenbosch (South Africa) and University of Twente, Enschede (The Netherlands)
4. Specific requirements Master or Equivalent degree in Civil Engineering, Mechanical Engineering (or equivalent).

**PhdC8. BioPaveDesign:** Design of New Sustainable Bio-Binders for Cold in place Recycling. Position details:

1. Main Supervisor: Dr. F Geisler (Eiffage, France)
2. Email for informal inquiries: [flavien.geisler@eiffage.com](mailto:flavien.geisler@eiffage.com)
3. Work Location: Eiffage Infrastructures, Research & Innovation centre, Corbas, France  
PhD enrolment at ENTPE
4. Specific requirements Master or Equivalent degree in Civil Engineering, Mechanical Engineering, Chemistry (or equivalent).

**PhdC9SpongePave:** Sustainable green infrastructure for climate neutral cities.

Position details:

1. Main Supervisor: Prof. M Wistuba (Technische Universität Braunschweig, Germany)
2. Email for informal inquiries: [s.trifunovic@tu-bs.de](mailto:s.trifunovic@tu-bs.de)
3. Work Location: Braunschweig Pavement Engineering Centre, Technische Universität Braunschweig (Braunschweig, Germany)
4. Specific requirements: Master or Equivalent degree in Engineering or equivalent degree.

**PhdC10ClimaResPave:** Impact of Climate Change on Fatigue Service Life of Road Pavements. Position details:

1. Main Supervisor: Dr Salvatore Mangiafico (ENTPE, France)
2. Email for informal inquiries: [salvatore.mangiafico@entpe.fr](mailto:salvatore.mangiafico@entpe.fr)
3. Work Location: Uni. Lyon / ENTPE. Vaulx-en-Velin (Lyon, France)
4. Specific requirements: Master or Equivalent degree in Civil Engineering, Mechanical Engineering, Materials Engineering.

## **ADDITIONAL INFORMATION:**

### **Benefits**

Benefits will be according to Marie Curie fellowship under MSCA Doctoral Networks conditions. Regarding salary, two main allowances will be paid:

1. Living allowance\*: 3400 €, with a country correction coefficient.
2. Mobility allowance\*: 600 €

\*Minus all compulsory deductions under national legislation.

If the recruited doctoral candidate has or acquires family obligations during the action duration, a family allowance will be paid.

Moreover, following the "Women and Science" movement, CIRCOPAV encourages and promotes the participation of women within the project. All partners are aimed to exercise a policy of equal opportunities at all times.

Last but not least, CIRCOPAV will correspondingly welcome researchers with refugee status (as defined by the Geneva Convention), who will benefit from less restrictive mobility rules.

### Eligibility criteria

Marie Skłodowska-Curie Actions Eligibility rules apply. Particularly:

1. Mobility Rules: The researcher (any nationality) must not have resided or carried out his/her main activity (work, studies, etc.) in the country of his/her host organisation for more than 12 months in the 3 years immediately prior to his/her recruitment (excluding vacations and short stays).

2. Be a doctoral candidate: the candidate must not be in possession of a doctoral degree at the date of the recruitment (Researchers who have successfully defended their doctoral thesis but who have not yet formally been awarded the doctoral degree will not be considered eligible.)

### SELECTION PROCESS:

---

Interested candidates should send an application (in English) containing:

1. Researcher declaration document including: (a) self-declaration about Eligibility\*; (b) reasoned specification of the positions applied; (c) self-declaration about English proficiency (max. 1 page)
2. Applicant CV (max. 4 pages)
3. Major academic transcripts (bachelor and master, if any)
4. Personal motivation letter (max. 300 words)
5. Research statement in accordance to the Research Project applied (max. 500 words/per project applied). See the list of Research Projects in the Basic Information Section.
6. (optional) Up to 3 recommendation letters from CIRCOPAV external recognized experts.

\* Physical evidence may be required before the signature of the contract.

NOTE 1: The application material should be sent in one PDF file of 10 MB maximum size.

NOTE 2: Applicants can apply to more than one position (with a maximum of 3 **PhdC**positions) by indicating in the Researcher Declaration Document the reasons for applying to multiple positions.

NOTE 3: Applications without Researcher Declaration Document or with unclear self-declaration about Eligibility, will be discarded.

The complete application must be sent by email directly to the network coordinator Prof. Rubio (University of Granada, Spain), [circopav@ugr.es](mailto:circopav@ugr.es), by **November 25<sup>th</sup>** 2022. Shortlisted candidates will be contacted.

### ADDITIONAL COMMENTS:

Please use the following subject for the application email and for the application PDF file:

CIRCOPAV\_SURNAME\_NAME (e.g.: CIRCOPAV\_LLOYD\_ANA would be the application email and the PDF file name from an applicant named "Ana Lloyd").

### REQUIREMENTS:

---

REQUIRED EDUCATION LEVEL: Engineering; Master Degree or equivalent that allows for PhD studies enrolment

REQUIRED LANGUAGES: ENGLISH: Excellent

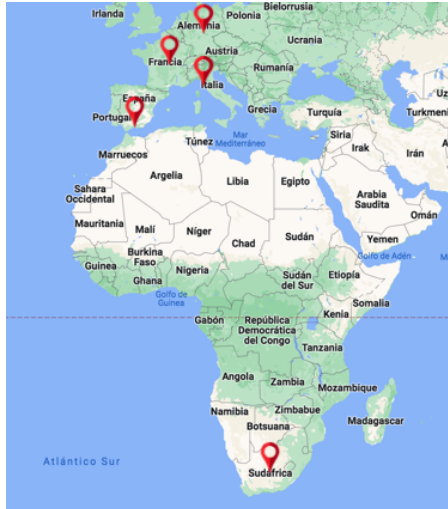
**Skills/Qualifications**

Please find the qualifications required per **PhdC**position in the Basic Information Section.

**Specific Requirements**

Please find the qualifications required per **PhdC**position in the Basic Information Section.

**WORK LOCATIONS:**



- 2 POSITIONS at LabIC.UGR, University of Granada, Granada, Spain
- 2 POSITIONS at Uni. Lyon / ENTPE. Vaulx-en-Velin (France)
- 1 POSITION at Eiffage Infrastructures in Lyon, France
- 1 POSITION at Stellenbosch University (SU), Stellenbosch (South Africa)
- 2 POSITIONS at University of Parma, Italy
- 2 POSITIONS at Braunschweig Pavement Engineering Centre, Technische Universität Braunschweig, Braunschweig, Germany

**Disclaimer:**

The responsibility for the jobs published on this website, including the job description, lies entirely with the publishing institutions. The application is handled uniquely by the employer, who is also fully responsible for the recruitment and selection processes.