PhD Candidate (f/m/d) In Satellite Communications -
Department of Communications Engineering - limited

The Department of Communications Engineering of the University of Bremen offers (under the condition of job release) a research position as

PhD Candidate (f/m/d) (E 13 TV-L) (100%)
In Satellite Communications
for 3 years. The position should be filled as soon as possible.

The research position is granted under the University Bremen Excellence Chair program of Prof. Petar Popovski from Aalborg University, in collaboration with Prof. Armin Dekorsy (head of the Department of Communications Engineering).

Berufsgruppe

Wissenschaft und Forschung

Bereich

The research is carried out at the Department of Communications Engineering at the University of Bremen in collaboration with the Connectivity Section at Aalborg University. The tasks include conducting excellent research, authoring of scientific publications, and participation in international conferences. This position offers the opportunity to pursue a PhD degree.
salary group 13 TV-L

Besetzbar

as soon as possible

Befristung

for three years

Aufgabengebiet

The key objective of the project is to complement the research experience of the University of Bremen in designing baseband technologies for wireless communications with the expertise of Prof. Popovski in designing access protocols for wireless (satellite) networks. The research aims at a joint design of baseband and access technologies, which are needed for high performance networks of small satellites for the New Space area.

A sample of possible research topics includes, but is not limited to:

• Wireless transmission schemes and protocols.

• Machine learning for joint communication and distributed processing on small satellites.

• Design and analysis of Internet-of-Things (IoT) connectivity with satellite systems.

Voraussetzungen
The successful candidate will have

- Excellent master or Dipl.-Ing. university degree in electrical/electronic engineering, or closely related fields such as applied mathematics or computer science.
- Strong analytical and mathematical skills, especially in statistics, stochastic modelling, optimization and/or machine learning.
- Good knowledge of communication engineering, signal processing and networking. Knowledge in communication theory is a plus.
- Programming skills (MATLAB, Python, C/C++).
- Very good knowledge of English language as the studies will be carried out in an international team.
- Excellent communication skills and enthusiasm to work in a team.
- Prior research experience and publications are desirable.

Kennzeichen
A 72/20

Bewerbungsfrist
08.05.2020

Allgemeine Hinweise

Please direct further inquiries on this position to NewSpace@ant.uni-bremen.de.
The University of Bremen has received a number of awards for its gender and diversity policies and is particularly aiming to increase the number of female researchers. Applications from female candidates, international applications and applications of academics with a migration background are explicitly welcome. Disabled persons with the same professional and personal qualifications will be given preference.

The time limitation is subject to the scientific qualification according to the Act of Academic Fixed-Term Contract, §2 (1) (WissZeitVG). Therefore, candidates may only be considered if they dispose of the respective scope of qualification periods according to §2 (1) WissZeitVG.

**Bewerbungshinweise**

Application documents should include a letter of motivation, a CV, certificates, the applicant's research and technical background as they relate to the position, and two reference letters.

As the positions should be filled at the nearest possible date, the deadline for the application is April 9th, 2020 or until the position is filled.

Shortlisted candidates will be contacted and invited to an interview via Skype.

Please send your application documents by indicating the job id to:

**Kontakt**

University of Bremen FB1
Department of Communications Engineering
Dr.-Ing. Bho Matthiesen
Otto-Hahn-Allee 1
D-28359 Bremen

or as a single PDF file not larger than 10MB by email to [NewSpace@ant.uni-bremen.de](mailto:NewSpace@ant.uni-bremen.de)