

The Astronomical Institute (Faculty of Physics and Astronomy) of the Ruhr University Bochum is looking to recruit three

Scientific assistants (m/f/d) with 29.87 hours per week (TVL E13) limited for 3 years.

Within the framework of the newly established CRC 1491 "The Interplay of Cosmic Matter - from Source to Signal" at the Ruhr University Bochum, a total of 3 positions are currently available in the following subprojects:

A2: Magnetic fields, cosmic rays and outflows in dwarf galaxies (Prof. Bomans).

A5: Decoding cosmic ray signatures in AGN starburst composites (Prof. Dettmar)

F6: Dark matter and gas in galaxies (Dr Wright).

**Your tasks:**

Research in the respective project and linked projects in the Collaborative Research Centre (CRC) 1491. A PhD thesis inside project context is desired and will be actively promoted within the integrated graduate school of the SFB.

Core tasks in the respective projects are the following:

A2: Reduction and analysis of radio continuum and multi-messenger data from dwarf galaxies with high and low star formation rates.

A5: Reduction and analysis of radio continuum and multi-messenger data from AGN starburst galaxies

F6: Reduction and analysis of Galaxy-Galaxy Lensing data from ground-based and space telescopes.

**Your profile:**

- \* A Master's degree in physics or astronomy.
- \* Experience with data from radio astronomical interferometers (A2, A5)
- \* Experience with astronomical optical / NIR imaging survey data (F6)
- \* Willingness and motivation to work in international teams
- \* good command of the English language, both written and spoken
- \* solid knowledge in programming, ideally in Python and/or R

**We offer:**

- \* Work in a dedicated, international, and appreciative team on some of the most exciting current topics in astrophysics.
- \* a wide range of support on the way to your doctorate in the integrated research training group of the CRC
- \* International experience through research stays with our international partners.

Further information:

For further information, please contact the PIs of the projects:

A2: Prof. Bomans Email: bomans@astro.rub.de Tel.: +49 234 32 22335

A5: Prof. Dettmar Email: dettmar@astro.rub.de Tel.: +49 234 32 23454

F6: Dr. Wright Email: wright@astro.rub.de Tel.: +49 234 32 24224

Unfortunately, travel expenses, accommodation costs and loss of earnings or other application costs for interviews cannot be reimbursed.

We look forward to receiving your application, by May 31, 2022 by email (letter of motivation, curriculum vitae and bibliography as PDF documents), and indication of 2 persons for "Letters of Reference" to the following address: goeldner@astro.rub.de.