The Alfred Wegener Institute Helmholtz Centre for Polar and Marine Research (AWI) is a member of the Helmholtz Association (HGF) and funded by federal and state government. AWI focuses on polar and marine research in a variety of disciplines such as biology, oceanography, geology and geophysics thus allowing multidisciplinary approaches to scientific goals.

Within the project of installing an AMS radiocarbon dating facility at AWI, the section Marine Geochemistry invites applications for the position as

Scientific manager of an accelerator mass spectrometry laboratory

Background and Tasks:
AWI is establishing a new laboratory for radiocarbon analysis with a small accelerator mass spectrometer (MICADAS system), equipped with a gas accepting hybrid ion source and a gas inlet system. Radiocarbon analyses are used for a broad range of scientific purposes at AWI, including age dating of polar marine sediments, terrestrial deposits and ice cores, determination of ocean ventilation rates on millennial to annual timescales, and carbon cycle studies. Materials to be dated include marine carbonates, bulk organic matter, dissolved organic matter, purified organic compounds, and gases. Equipment available for sample preparation includes automated systems for carbonate sample handling, sample combustion and graphitization, as well as a manual vacuum line. As scientific manager of the AMS laboratory you will be responsible for the routine operation and maintenance of the AMS system and periphery instrumentation and for quality control of the analytical results. Furthermore, you will lead the development of new or adapted sample preparation protocols for samples with special requirements (e.g., gases at natural atmospheric concentration levels). Your participation in the instrument's installation in November 2016 is expected.

Requirements:
You should have a background in physics, analytical chemistry, or a related field and be experienced in the operation and maintenance of isotope ratio monitoring mass spectrometers; prior experience with AMS ^{14}C analysis would be highly appreciated. An interest in innovative isotope analytical techniques as well as the ability for developing creative solutions adapted for special scientific problems is anticipated. You are expected to participate in the institute's research program, and the development of own projects with relation to the institute's research program would be encouraged. A PhD and a track record of scientific publications in international peer reviewed journals are beneficial. Excellent communication skills in English and preferably also in German are essential, as well as the ability to work in interdisciplinary teams.

The position can start as soon as the candidate is available, ideally by September 1st, 2016. It is initially limited to 2 years. Depending on the project's success, there will be an option of tenure. The salary will be paid in accordance with the German wage agreement for public service employees - Tarifvertrag des öffentlichen Dienstes (TVöD Bund). The place of employment will be **Bremerhaven**.

Questions regarding the position should be directed to **Prof. Dr. Gesine Mollenhauer** (gesine.mollenhauer@awi.de).

We offer you a multi-disciplinary, international, and fascinating professional environment with flexible working hours, state-of-the-art research equipment, and a first-rate infrastructure.
AWI aims to increase the number of women in the scientific staff. Female candidates are therefore especially asked to apply. Disabled applicants will be given preference when equal qualifications are present. The AWI fosters the compatibility of work and family through various means. Because of our engagement in the area of work-life compatibility we have been awarded the certificate "Career and Family".

Please forward your applications with the standard documentation (CV, a list of publications, a statement describing previous experience and the analytical background) by **July 31st, 2016**

referencing code **66/G/Geo-tt** to: Alfred-Wegener-Institut für Polar- und Meeresforschung, Personalabteilung (human resources), Postfach 12 01 61, 27515 Bremerhaven / Germany or by e-mail (all documents merged into one PDF file) to: personal@awi.de).