The Royal Observatory of Belgium is looking for scientists for its activities in the frame of
the ERC Synergy Grant « GRACEFUL » (GRavimetry, mAgnetism, rotation, and CorE FLow)

Thanks to major funding from the European Commission for the period 2020-2024, five scientific positions at the PhD and Postdoctoral levels are available, starting from September 2020, to work on the modelling of the Earth rotation, Earth interior and in particular on the flow inside its liquid core. The positions are offered in the frame of the ERC Synergy Grant « GRACEFUL » (GRavimetry, mAgnetism, rotation, and CorE FLow). The goal is to use observations of the Earth's rotation, magnetic and gravity fields in synergy, together with core flow models, to provide new information on the dynamical processes occurring in the fluid core and at the Core-Mantle Boundary (CMB). This project will be in collaboration with two other institutes specialist in gravity field and in magnetic field determination and interpretation, while the ROB is more centered on Earth's rotation and core flow computation.

The PhD contracts will be for one year renewable up to a total of 4 years, the postdoctoral positions will be for one or two years and some positions can also be extended up to 4 years. Starting dates are flexible. A first round is expected to begin in September 2020, at the initiation of the project. Applications will remain open during the first years of GRACEFUL or until all positions are filled. Enthusiastic and motivated scientists are encouraged to apply even if they are not available on September 1st, 2020.

The competitive salary, according to the salary scales for federal civil servant scientists, makes it possible to live comfortably in Brussels and includes benefits.

WE ARE LOOKING FOR
The ideal candidate has an Academic master degree in Science or Engineering as well as a PhD (for the postdoctoral positions), and combines many of the following characteristics:
- Scientific curiosity
- Strong interest in the field of space research
- Creative and pragmatic problem-solving approach
- Experience in numerical modelling
- Knowledge of fluid mechanics
- Knowledge in Earth rotation
- Capability to work in English.

HOW TO APPLY
Send your CV (including grades) with a cover letter and if possible two or three references (all in PDF format) by April 24th, 2020 to v.dehant@oma.be, Head of Operational Direction 'Reference Systems and Planetology' at ROB. The beginning of employment will be on September 1st, 2020 or later.