

## Training Opportunity for Lithuanian Trainees

| Reference   | Title  | Duty Station |
|---|--|--------------|
| LT-2016-EOP-SA  | <b>Advanced image recognition, classification and data processing and analysis methods</b> | ESRIN        |
| <p><b>Overview of the unit's mission:</b><br/>           The Science Strategy, Coordination and Planning Office within the Science, Applications and Future Technologies Department is responsible for supporting the development of the overall strategy for the Directorate, including implementation and coordination of relevant actions to maximise the scientific return of ESA's Earth Observation (EO) missions. This includes the overall management of the Earth Explorer missions' selection procedure, initiation, implementation and coordination of scientific support projects, interfacing with international scientific entities, and planning and coordination of training and education activities.</p>            |  |              |
| <p><b>Overview of the field of activity proposed:</b><br/>           The candidate will be involved in the research concerning <b>advanced image recognition, classification and data processing and analysis methods.</b></p> <p>The main activities include:</p> <ul style="list-style-type: none"> <li>- Land use/ Land Cover classification and vegetation maps preparation based on SAR Sentinel-1 and optical Sentinel-2 data for further development of roughness maps</li> <li>- Identification and recognition of vegetated areas with different levels of density</li> <li>- Statistical segmentation and classification of Sentinel-1 dual pol data for tracking water level changes over time in flooded areas</li> </ul> |  |              |
| <p><b>Required education:</b><br/>           Applicants must have completed their MSc (or equivalent) studies in Physics, Engineering or Earth Science. Experience with SAR data is highly desirable. Experience with computing programming will be an asset.</p> <p>Applicants should have good analytical and communication skills and should be able to work in a multi-cultural environment in an autonomous manner.</p> <p>Applicants must be fluent in English and/or French, the working languages of the Agency. A good proficiency in English is required.</p>   |  |              |