

Training Opportunity for Belgian Trainees

| Reference | Title | Duty Station |
|--|--|--|
| BE-2019-SCI-FIV(3) | CMOS Detector Testing | ESTEC |
| Overview of the unit's | mission: | |
| studies Phases 0/A/B1 and te Directorate (D/SCI). The Payloa of specific mission oriented val the implementation phase. The | nent (SCI-F) is in charge of mission preparation a chnology developments) and of small missions imp ad Validation Section (SCI-FIV) in the Future Missio lidation activities, for science missions, aiming at rec e section also provides general support to the Direc , for missions under development or during operation <u>alidation/</u>). | lementation in the Science ns Department is in charge lucing development risks in ctorate's other Departments |
| One of the main activities of electronic performances. | the section is to validate payload instrument dete | ector and detector readout |
| Overview of the field of | of activity proposed: | |
| payloads. The support providedDuring the early precursIn the assessment/defin | ation phase (e.g. Euclid and CHEOPS) | ience mission: |
| | eraction with the stakeholders (e.g. study, project or on the developers scientist) for requirements specification | |
| Design of the validation | setup (generally by tailoring existing set-ups to the nerror action of the test set-up | eed) |
| Data analysis in collabo | ration with other sections and reporting | |
| preparation of future science m | cal performance including the impact of radiation nission instrumentation. This trainee opportunity will b articular emphasis on visible and X-ray CMOS detected | e focused on this aspect of |
| The role of the trainee will be to Conduct a literature reviperformed. Write a dedicated detection | ew on detector characterisation to understand how e | lectro-optical test are |
| Specify and adapt the te Learn how to operate th Measure electro-optical | est set up to accommodate the tests e detector and the electro-optical components of the performances of visible and X-ray CMOS detectors a ponclude on the electro-optical performances of the te | according to the test plan |
| | th specialisation in opto-electronics or equivalent. nowledge of space radiation effects upon detectors w | |
| | | |