

EIGHT FUNDED* RESEARCH POSITIONS - 2019

<http://www.saa0.ac.za/~matthew/>



SAAO
South African
Astronomical Observatory

ASTRO-INSTRUMENT projects

Bursary / Honors Position-5:

Funding Period: (2019)

Funding Amount: NASSP

Requirement: Undergraduate degree (BSc or Diploma in Civil Engineering)

Closing Date: 22 February 2019

key words: *civil engineering; lab design and construction*

Description: We seek applicants to undertake a Honors project on one or more critical elements of the civil engineering design and construction of a new laboratory space for astronomical instrumentation (optics, electronics, precision fabrication) under development at the South African Astronomical Observatory in Cape Town. Topics include: structural enclosures, ergonomics, HVAC for clean environments, space management, power and water access, large equipment ingress and egress.

The successful applicant will define their program in consultation with Prof M Bershady (SAAO SARCHI), based on their expertise, interests and career goals, the needs of the project, and the availability of suitable co-supervisor at their degree-granting institution. The student will work with Bershady, his research team, and other members of the SAAO technical staff.

Requirements: Applicants need to have successfully completed an undergraduate degree (BSc or Diploma) in a related sub-field. In exceptional cases 3rd year students will be considered. Applicants need not have a background in astronomy, astronomical instrumentation, or optics; an interest to learn about relevant elements of these disciplines is desired.

Application: A statement of interest, curriculum vitae, and name of a co-supervisor should be sent to mab@saa0.ac.za (Matthew Bershady).

***Professor Bershady** is a South African Research Chair (**SARCHI**) located at SAAO, and cross-appointed at the University of Cape Town and the University of Wisconsin-Madison. **Inquiries and applications should be sent to mab@saa0.ac.za.**