THE NATIONAL RADIO ASTRONOMY OBSERVATORY (NRAO) has an opening for a Co-Op student within the Electronics Division at its Green Bank, WV facility. The Electronics Division is responsible for design, construction, and maintenance of all microwave, digital, and servo systems on the on-site radio astronomy telescopes. The specific duties of the co-op student will be tailored to the successful candidate. However, interests and talents in one or more of the engineering areas of signal processing, digital design, or RF design are preferred. The student should have completed one or more of the following EE courses: electromagnetics, digital signal processing, or communication systems. The candidate must possess a GPA of at least 2.9 out of a 4.0 or equivalent. Examples of possible student projects are:

**Fiber Optics:** Assist in development of a high-speed data link over fiber using inexpensive commercial components and interface of the link with high-speed A/D samplers.

**Instrument Control:** Assist in development of software for control of the GBT RFI Monitoring Station and for data acquisition/display. Investigate improvements to the GBT Active Surface servo software.

**RF/Microwave:** Assist in design, modeling, and implementation of various microwave subsystems used in radio astronomy receivers. These could include filters, frequency converters, switches, and other components in microstrip and coplanar waveguide.

**Surface Mount Technology:** Assist in the setup and operation of small-scale SMT production equipment, including reflow oven, screen printer, and pick-and-place machine.

This Co-Op position will be located in Green Bank, West Virginia, approximately 2 ½ hours west of Charlottesville, VA. On site housing is available. **Salary:** $2,200 - $2,800 per month depending on student’s academic year; Co-Op period is for 3-4 months, September through December. NRAO will also host a Spring Co-Op, with plans for 2006 - 2007.

**Application process:**

Submit your resume, to the career services program at the Engineering School OR fax directly to NRAO at the number shown below.

Mr. Roy A. Norville, SPHR
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520 Edgemont Road, Charlottesville, VA 22903
FAX: 434-296-0202 or phone 434-296-0265
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EOE, M/F/H/V