Indigenous.Link

Canada's fastest growing Indigenous career portal, Careers.Indigenous.Link is pleased to introduce a new approach to job searching for Indigenous Job Seekers of Canada. Careers.Indigenous.Link brings simplicity, value, and functionality to the world of Canadian online job boards.

Through our partnership with Indigenous.Links Diversity Recruitment Program, we post jobs for Canada's largest corporations and government departments. With our vertical job search engine technology, Indigenous Job Seekers can search thousands of Indigenous-specific jobs in just about every industry, city, province and postal code.

Careers.Indigenous.Link offers the hottest job listings from some of the nation's top employers, and we will continue to add services and enhance functionality ensuring a more effective job search. For example, during a search, job seekers have the ability to roll over any job listing and read a brief description of the position to determine if the job is exactly what they're searching for. This practical feature allows job seekers to only research jobs relevant to their search. By including elements like this, Careers.Indigenous.Link can help reduce the time it takes to find and apply for the best, available jobs.

The team behind Indigenous.Link is dedicated to connecting Indigenous Peoples of Canada with great jobs along with the most time and cost-effective, career-advancing resources. It is our mission to develop and maintain a website where people can go to work!

Contact us to find out more about how to become a Site Sponsor.

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Job Board Posting

Careers.Indigenous.Link

Date Printed: 2024/03/28

Radio Astronomy Systems Engineer / Ingenieur Ou Ingenieure, Systemes De Radioastronomie

Job ID	**E5-70-3D-1C-15-15**	
Web Address	https://careers.indigenous.link/viewjob?jobname=E5-70-3D-1C-15-15	
Company	National Research Council Canada (NRC)	
Location	Penticton, British Columbia	
Date Posted	From: 2022-08-05	To: 2022-08-26
Job	Type: Fixed-term	Category: Miscellaneous
Job Salary	$57,220 To $161,754 per year	
Languages	English	

Description

Help bring research to life and drive your career forward with the National Research Council of Canada (NRC), Canada's largest research and technology organization.

We are looking for a Radio Astronomy Systems Engineer to support our Herzberg Astronomy and Astrophysics Research Centre. The Radio Astronomy Systems Engineer would be someone who shares our core values of Integrity, Excellence, Respect and Creativity.

This position will be located in Penticton, British Columbia, at the Dominion Radio Astrophysical Observatory (DRAO), the site of several established telescopes and the location of the active design and construction of components for current and future facilities including the Atacama Large Millimeter-submillimeter Array (ALMA) and the Square Kilometer Array (SKA). The Radio Astronomy Systems Engineer will be a member of the DRAO Systems team, reporting to the Radio Systems team lead. They will be responsible for leading the development of efficient standard systems engineering tools and processes across the DRAO and guiding various teams in the development of their specific requirements, interfaces, test plans and other systems engineering deliverables.

Some of the responsibilities for this position include:

Build and implement a consistent and formal framework of systems engineering processes, tools and standards for DRAO.

Lead the development and adoption of a requirements management system tailored to meet the needs of specific projects.

Guide the development of verification, integration and test plans for technical systems.

Guide teams to develop requirements and Interface Control Documents (ICDs) as well as assist in writing, reviewing, and providing feedback on these draft documents.

Guide the setup of configuration control of technical systems, both in development and in operations.

Support the setup of the systems engineering change control review and release process.

Work with project managers to develop work- and product-breakdown structures for projects.

Work with project managers to identify synergies across projects to ensure maximal design reusability.

Work with subsystem groups and systems engineering to develop system wide performance allocation and resource budgets including radio astronomy science performance metrics, mass, heat dissipation, power requirements, cooling requirements.

Work with subsystem groups and systems engineering to define the architectures for signal chain, control systems, communication and information systems, observatory safety systems, and services including power and coolant.

Contribuez a la realisation de travaux de recherche strategiques et poursuivez une carriere prometteuse au Conseil national de recherches du Canada (CNRC), la plus grande organisation de recherche et de technologie au Canada.

Nous souhaitons embaucher une personne pour occuper le poste d'ingenieur, Systemes de radioastronomie en vue de soutenir le centre de recherche Herzberg en astronomie et en astrophysique (HAA). La personne choisie doit partager nos valeurs fondamentales relatives a l'integrite, a l'excellence, au respect et a la creativite.

Ce poste sera situe a Penticton, en Colombie Britannique, a l'Observatoire federal de radioastrophysique (OFR), site de plusieurs telescopes etablis et lieu de conception et de construction actives de composants pour des installations actuelles et futures, notamment le grand reseau millimetrique-submillimetrique d'Atacama (ALMA) et le reseau kilometrique carre (SKA). La personne retenue sera membre de l'equipe des systemes radio de l'OFR et relevera du chef d'equipe, Systemes radio. Elle sera chargee de diriger la mise au point d'outils et de processus d'ingenierie des systemes normalises et efficaces dans l'ensemble de l'OFR et de guider les differentes equipes dans l'elaboration de leurs exigences, de leurs interfaces et de leurs plans d'essai precis ainsi que d'autres produits livrables d'ingenierie des systemes.
Voici certaines des responsabilites liees a ce poste :
Etablir et mettre en oeuvre un cadre coherent et formel de processus, d'outils et de normes d'ingenierie des systemes pour l'OFR.
Diriger la mise au point et l'adoption d'un systeme de gestion des exigences adapte aux besoins de projets precis.
Orienter l'elaboration des plans de verification, d'integration et d'essai pour les systemes techniques.
Guider les equipes dans l'elaboration des exigences et des documents de controle d'interface, et contribuer a la redaction, a la revision et a la retroaction concernant ces documents provisoires.
Orienter la mise en place du controle de la configuration des systemes techniques, a la fois lors de leur developpement et de leur exploitation.
Soutenir la mise en place du processus d'examen et de publication du controle des modifications de l'ingenierie des systemes.
Travailler avec les chefs de projet pour etablir des structures de repartition du travail et des produits dans le cadre des projets.
Travailler avec les chefs de projet pour cerner les synergies entre les projets afin de garantir une reutilisation maximale de la conception.
Travailler avec les groupes des sous systemes et l'equipe de l'ingenierie des systemes pour elaborer l'affectation du rendement et les budgets lies aux ressources a l'echelle du systeme, y compris les parametres du rendement de la science en radioastronomie, la masse, la dissipation de la chaleur ainsi que les exigences en matiere d'alimentation et de refroidissement.
Travailler avec les groupes des sous systemes et l'equipe de l'ingenierie des systemes pour definir les architectures de la chaine de signaux, des systemes de controle, des systemes de communication et d'information, des systemes de securite de l'observatoire et des services, notamment l'alimentation et le refroidissement.

Experience

At least 3 years of systems engineering experience.
At least 3 years of multi-disciplinary engineering experience, being involved in a wide variety of fields that contribute to the development of a technical system.
Experience working in a team environment with engineering staff to develop requirements, interfaces and test plans.
Experience writing formal requirements in radio astronomy or a related field such as radar or satcom using requirements capture and management software.

Au moins 3 ans d'experience en ingenierie des systemes.
Au moins 3 ans d'experience en ingenierie multidisciplinaire, incluant la participation a une grande variete de domaines qui contribuent a la mise au point d'un systeme technique.
Experience du travail en equipe avec le personnel d'ingenierie pour elaborer les exigences, les interfaces et les plans d'essai.
Experience de la redaction d'exigences formelles en radioastronomie ou dans un domaine connexe comme le radar ou les communications par satellite, a l'aide d'un logiciel de saisie et de gestion des exigences.

Education Requirements

Bachelor's degree in electrical and electronics engineering, mechatronics, robotics engineering or a related discipline.

Baccalaureat en genie electrique et electronique, en mecatronique, en robotique ou dans une discipline connexe.

Essential Skills

Proficient in the use of systems engineering practices and tools.
Clear understanding of the fundamentals of various engineering disciplines such as electronic, mechanical and software engineering.

Demonstrated ability to write formal requirements using requirements capture and management software.
Knowledge of radio astronomy, radar or satcom technologies including analog and digital systems, software and mechanical systems would be considered an asset.

Maitrise de l'utilisation des pratiques et des outils d'ingenierie des systemes.
Comprehension claire des principes fondamentaux de diverses disciplines de l'ingenierie telles que le genie electronique, mecanique et logiciel.
Capacite manifeste de rediger des exigences formelles a l'aide d'un logiciel de saisie et de gestion des exigences.
Connaissance des technologies de la radioastronomie, du radar ou des communications par satellite, notamment des systemes analogiques et numeriques, des logiciels et des systemes mecaniques serait consideree comme un atout.

How to Apply

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