

Centro de Estudios Avanzados en Zonas Áridas (CEAZA),
Regional Unit of Scientific and Technological Development (CONICYT)
P.O. box 599-La Serena-Chile
Phone 56-51-204378-Fax 56-51-334741
E-mail ceaza@userena.cl
<http://www.ceaza.cl>



Multiple positions available at the Center of Advanced Studies in Arid Zones (CEAZA), a dynamic institution dedicated to applied research in the marine and terrestrial environments of Northern-Central Chile.

Climatologist (Investigator)

The Center for Advanced Research in Arid Zones (CEAZA) studies the impact of climate oscillations on the hydrological cycle and the biological productivity in the arid zones of north-central Chile.

Qualifications:

- Ph.D. degree, preferably climatology / atmospheric sciences
- Experience in associative research

Special skills:

- Mesoscale atmospheric modelling experience
- Climatological database analysis
- Energy and water balance assessment
- Demonstrable experience in atmospheric monitoring devices (data in situ, data gathering, remote sensor devices)
- Ability to design decision making tools in the agronomy field, based on meteorological and climate parameters
- Preferably with agroclimatology experience
- Ability to work in interdisciplinary teams
- Development of proposals for new research

Requirements

- Curriculum Vitae, and two letters of recommendation
- Official translation of certificates of qualifications
- Reprints of publications

Please, send documents to: Ing. Claudio Vásquez P., Manager of Centro de Estudios Avanzados en Zonas Áridas (CEAZA), Casilla 599, La Serena – Chile. Deadline for receipt of documents: March 2008; It is possible that a personal interview and formal conference will be requested during the selection process.

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Social Ecology Expert (Investigator)

Essential tasks:

Improve the sustainable development research area, focusing on management human dimension, environmental and natural resources planning.

Qualifications:

- Ph.D. degree in Natural Resources and Sustainable Development
- Post doctoral researcher experience

Special skills:

- Ability to understanding and systematize the economical-social, historic-cultural order and political elements that are related with the use of natural resources.
- Ability to propose actions promoting harmony among development needs, institutionality and biodiversity conservation and spaces or crisis cultural units
- Technical, technological and researcher experience
- Fluent in technical and scientific english
- Ability to work in interdisciplinary teams

Duties:

- Development of new research proposals
- Data management
- Mainstream journal publishing
- Support to the technological management area

Requirements

- Curriculum Vitae, and two letters of recommendation
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Ecosystem Services Expert (Investigator)

Essential tasks:

Assess the benefits and services brought by the ocean and terrestrial natural ecosystem to the development of Chile's arid zones.
Quantify the changes in the ecosystem services that will be produced as consequence of global climate change and regional climate oscillations.

Qualifications:

- Ph.D. degree in Ecosystem Services Assessment and Economical Ecology
- Post doctoral researcher experience

Special skills:

- Ability in conceptual and mathematical modeling
- Assessment social and ecological variables that impact in the ecosystemic services
- Technical, technological and researcher experience
- Fluent in technical and scientific English
- Ability to work in interdisciplinary teams

Duties:

- Development of new research proposals
- Data management
- Mainstream journal publishing
- Support to the technological management area

Requirements

- Curriculum Vitae, and two letters of recommendation
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Remote Sensing Expert (Investigator)

Essential tasks:

Spatial pattern analysis of past and future changes in biological productivity of terrestrial and coastal natural ecosystems.
Assessment of the impact of human technological advances on current and potential productivity of terrestrial and coastal ecosystems under culture.
Provide information and support for developing precision agriculture.

Qualifications:

- Ph.D. degree in remote sensing
- Post doctoral researcher experience

Special skills:

- Ability to analyse and interpret multispectral satellite images and high/middle definition hyperspectral air images
- Radiometric and spectral radiometric field experience
- Satellite image database management
- Demonstrable experience in advanced processing of remotely sensed data, preferably ENVI & IDL software.
- Fluent in technical and scientific English
- Ability to work in interdisciplinary teams

Duties:

- Temporal and spatial changes analysis, by means of spectral signature of cultivated areas in coastal and dryland ecosystems
- Development of proposals for new research
- Data management
- Obtain Biogeophysical info as input variables at patterns of mathematical modeling
- Support to the precision agriculture research and technological management area
- Mainstream journal publishing

Requirements

- Curriculum Vitae, and two letters of recommendation
- Official translations of certificates of qualifications
- Reprints of publications

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Hydrobiologist (Investigator)

Essential task:

Studies of freshwater macroinvertebrate communities for use as river water quality bioindex in arid zones.

Qualifications:

- M.Sc. degree in Hydrobiology / Limnology
- 2 years professional experience

Special skills:

- Implementation of hydrobiological monitoring system at the Atacama and Coquimbo region's mainstream rivers
- Design and develop of field and controlled-environment hydrobiological experiments
- Experience in management of laboratory and field support staff
- Must be able work in interdisciplinary teams
- Knowledge of general river ecology, including freshwater flora and fauna and physico-chemical quality river parameters
- Must be able to identify freshwater invertebrates
- Fluent in technical and scientific English
- Technical, technological, taxonomic and research experience

Duties:

- Development of river quality assessment based on biological indices in north-central Chile
- Proposal elaboration and management
- Support technological management area
- Mainstream journal publishing

Requirements

- Curriculum Vitae, and two letters of recommendation
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Molecular Biologist (Investigator)

Essential task:

Supporting of aquaculture development and research, using molecular techniques applied to genetic variability analysis, linked with behavioral and physiological traits (e.g. animal welfare).

Supporting genetic improvement programs for species of interest for aquaculture.

Qualifications:

- Biochemist, biotechnology or biology degree with experience in molecular techniques (preferably at the post graduate level)

Special skills:

- PCR, RT-PCR techniques
- Gene expression studies techniques (ETS, Micro-arrays, etc.)
- DNA cloning and sequencing
- Must be able to work in teams
- Gene expression analysis, for species of interest for aquaculture
- Diserable fluency in technical and scientific English

Duties:

- Molecular markers development, for genetic variability analyses
- Genetic maps construction
- QTL search

Requirements

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- Official translation of certificates of qualifications

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Postdoctoral Position: Agroclimate Modelling

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Qualifications:

- Ph.D. degree in climatology / atmospheric sciences
- Experience in associative projects of investigation

Technical Qualifications:

- Experience in agroclimate modelling
- Climatological data base analysis
- Energy and water balance assessment
- Experience / skills in the use of Atmospheric monitoring devices (data in situ data gathering, remote sensor devices)
- Ability to design decision making tools in the agronomy field, based on meteorological and climate parameters

Special skills:

- Capacity to work in interdisciplinary teams
- Ability to formulate research projects

Requirements

- Curriculum Vitae, and two letters of recommendation
- Official translation of certificates
- Publication reprints

Availability: March, 2008; Please, send documents to: Ing. Claudio Vásquez P., Manager of Centro de Estudios Avanzados en Zonas Áridas (CEAZA), Casilla 599, La Serena – Chile.

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Gestor de Proyectos

El Centro de Estudios Avanzados en Zonas Áridas (CEAZA) estudia el impacto de las oscilaciones climáticas en el ciclo hidrológico y en la productividad biológica en las zonas áridas del centro norte de Chile.

Requisitos:

- Ingeniero comercial o ingeniero civil industrial titulado con 3 años de experiencia mínimo en el rubro y perfil ejecutivo
- Experiencia en formulación, evaluación y gestión de proyectos de investigación científica y tecnológica
- Competencia en manejo presupuestario y financiero, investigaciones de mercado, prospectiva tecnológica, búsqueda y análisis de patentes y publicaciones
- Experiencia en transferencia tecnológica, propiedad intelectual y patentamiento, asociados a mecanismos de sustentabilidad de proyectos científico-tecnológicos

Habilidades:

- Capaz de visualizar productos en el trabajo del CEAZA, que acerquen su quehacer a la realidad de las distintas industrias de la región, a fin de transferir, efectivamente, la tecnología generada por el equipo de investigadores del CEAZA.
- Capaz de comprender y transmitir la importancia de la interfase tecnología-empresa, como también los beneficios del vínculo ciencia-tecnología, para identificar y desarrollar proyectos que solucionen necesidades de los sectores productivos.

Presentar

- Curriculum Vitae, y dos recomendaciones
- Copia de título certificado ante notario
- Disponible desde marzo del 2008

Por favor, enviar documentos a: Ingeniero Claudio Vásquez P., gerente del Centro de Estudios Avanzados en Zonas Áridas (CEAZA), casilla 599, la Serena-Chile.

Es posible que se solicite una entrevista personal y una conferencia formal durante el proceso de selección.