

INTERNSHIP/CO-OP CATALOGUE 2008-2009

Mining Business Unit / AREVA NC



Presentation	1
» The AREVA Group	2
» The Mining Business Unit	3
» The Mining Business Unit Activities	4
» Professions in Geology	5
» Professions in Mine Exploitation	6
Internship and Co-op opportunities	7
Our Internship Policy	8
» Exploration Geologist Internships / Co-ops	9
» Geographical Information System Internships / Co-ops	10
» Geophysics Internship / Co-op	11
» Mining Research & Reserves Internships / Co-ops	12
» Mining Engineering Internships / Co-ops	13
» Maintenance Engineer Internships / Co-ops	14
» Process Engineer Internships / Co-ops	15
» Project Department Engineer Internships / Co-ops	16
How to apply ?	17

Presentation |

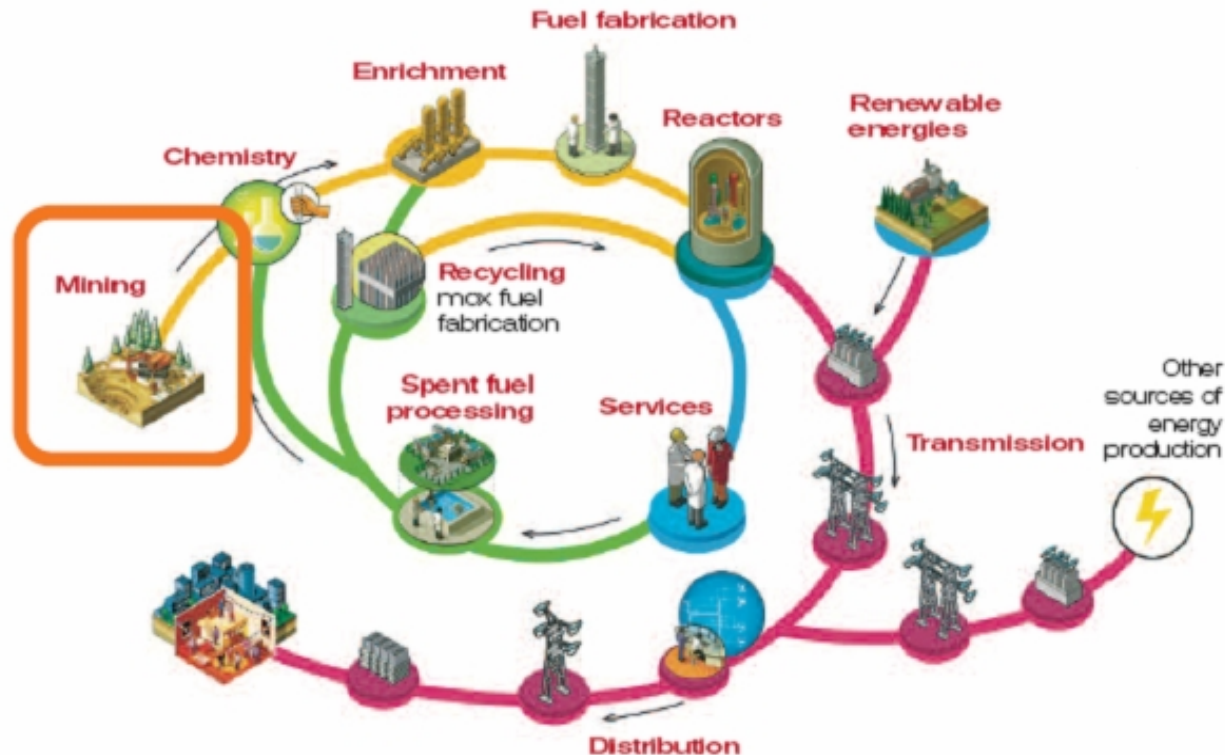
The AREVA group

The Mining Business Unit, a source of energies

The Mining Business Unit is a producer and supplier of uranium, the raw material for the nuclear fuel cycle. With operations on five continents, it engages in all activities related to the geological prospecting for deposits, the extraction and processing of the uranium ore, site reclamation after mining, and the marketing of uranium.

The Mining BU In figures

- **4,000** employees worldwide (including 200 in France)
- A presence on five continents through:
- **4** uranium production subsidiaries
- **4** exploration subsidiaries
- **1** trading subsidiary

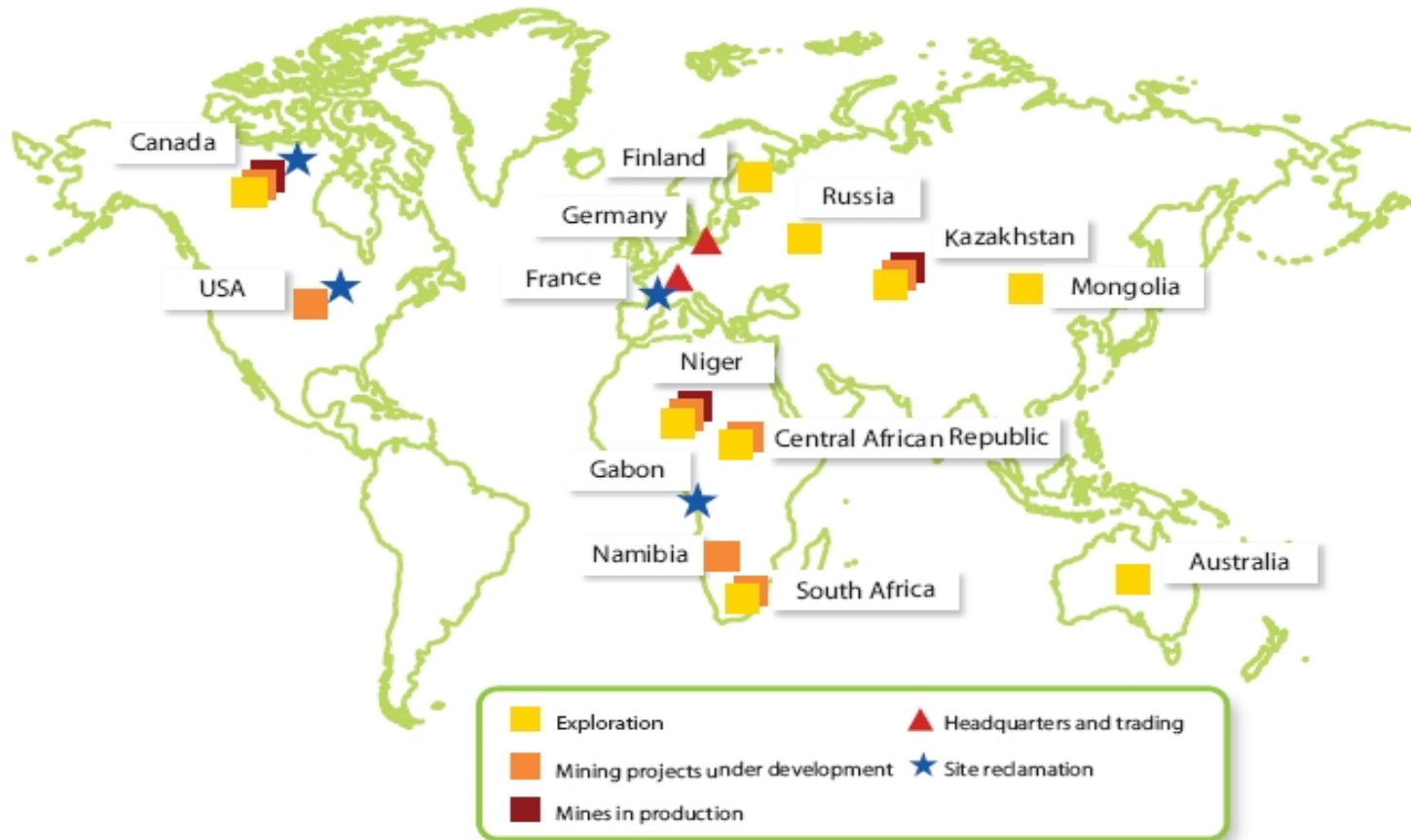


- Front-End Division
- Reactors & Services Division
- Back-End Division
- Transmission & Distribution Division

The Mining Business Unit

A multicultural team

In our operations all over the world, men and women from different cultures work together and share the same values.



The Mining Business Unit activities

Varied and rewarding professions in four areas of activity



Everything begins with **exploration** to locate uranium deposits. Geologists identify areas where there are uranium concentrations of potential interest. Drilling is then done to confirm the deposit, determine its boundaries, and estimate the amount of uranium it contains.

Next come **feasibility studies** to answer a variety of questions concerning yields, profitability, environmental protection, and local integration of the mining activity, among others.

In the following phase, the **ore is extracted** from the ground. Depending on the deposit's characteristics, the ore is removed either by open-pit or underground mining or by the unconventional technique of in situ leaching.

The ore is then transported to a **processing plant**. There it is treated, usually with acid, to produce a solution from which the uranium concentrate called yellowcake is obtained. The Mining BU's activities do not stop there, however.

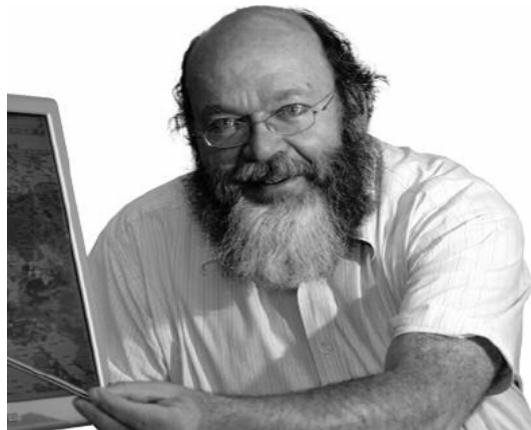
Once the mining is finished, the installations are dismantled and the sites are reclaimed. They then remain under **environmental monitoring** for several years.

The parallel activity of **trading** consists in buying and selling uranium in the form of concentrate or a transformed product. Usually performed with a short-term focus, trading allows the Mining BU to maintain an adequate balance between resources and sales, and it also increases AREVA's share of the uranium market.

A passion for fieldwork

Adventurer, explorer, pioneer . . . you are the vanguard in the nuclear fuel cycle. Your job is in the field, where each discovery drives our energy activities forward.

Jean-Pierre Milesi, senior exploration geologist – exploration department
(université de Grenoble – France)



To one day pass on the rugby ball that I was given to a young person"

"We try to spot an abnormal concentration of uranium in the geological history of a region. A team does this analysis. The geophysicists go to work and come up with maps of anomalies, and the geologists suggest areas of interest. A geologist learns his job in the field. You have to move around, encounter new situations, observe. Besides the technical work, we have to make an effort to adjust to the climate and to different cultures. For me, a successful career is to one day pass on the rugby ball that I was given to a young person who will discover the deposit that everyone has dreamed of."



Professions in exploration

- Geologist
- Exploration geologist
- Geophysical engineer
- Hydrogeologist
- Exploration project leader
- Structural geologist
- Sedimentary geologist

Professions in mine exploitation

The art of extracting the raw material

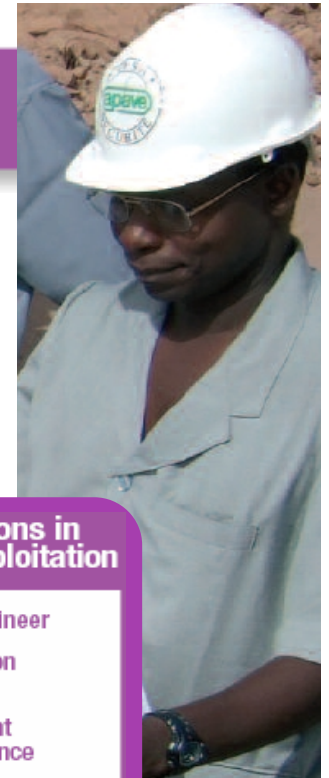
Innovation and high technology are coming to play an ever-larger role in these age-old activities, with the revolutionary mining methods developed in the Canadian Far North pointing the way.

Ousmane Mamadou, head of the geological monitoring department – COMINAK, Niger (ENSG Nancy – France)



Our aim is to improve methods"

"I work directly with the underground mining units. My team tracks the mining work and collects the data needed to monitor production. Our aim is constantly to improve means and methods in order to lower costs, enhance quality and safety, and protect the environment. We really have a central role in the Mining BU's activities."



Professions in mine exploitation

- Mine Engineer
- Fabrication engineer
- Equipment maintenance engineer
- Plant maintenance engineer
- Electrical engineer
- Warehouse manager
- Mine geologist
- ISL engineer

Internship and co-op opportunities|

Our Internship Policy

The internship / co-op is a practical training period that is complementary to academic training. It is based on a mandatory agreement between the intern, the university/school and the company.

Through a 4 to 8 months period, the internship or co-op's goal is to allow the student to acquire skills and knowledge he or she will be able to use when starting their career.

– Our commitments towards the students –

- ➔ To welcome and give them the means to succeed in his/her mission
- ➔ To make sure they benefit from quality supervision provided by an experienced mentor/ team
- ➔ To compensate their internship according to the salary scale applicable within the AREVA Group
- ➔ To offer a training that will allow them to begin an international career
- ➔ To offer the possibility of being hired at the end of the internship period if a corresponding position is available and if the experience has been positive for both parties

Exploration Geologist Internships / Co-ops GE000004

Entity

AREVA NC –Mining Business Unit – Geosciences Department
Internships in Africa, Canada, Central Asia and Australia

Missions

You will contribute to:

- » Monitoring core drilling campaigns and recovering core samples
- » Producing diagrams and drawings for geological logs
- » Taking core samples and cuttings
- » Producing maps and geological cross-sections
- » Processing geological data
- » Setting-up up core drilling campaigns
- » Writing campaign reports and summaries
- » Assist in supervising logging work

Requested Profile

- » University student in Geology, or geological engineering
- » Available for a 4 to 6 month period
- » Languages: English a minimum requirement (proficiency in reading and writing), Russian, Spanish or Arabic appreciated
- » International mobility on all potential Mining BU sites and a passion for field work
- » Good team player
- » Analytical and reasoning skills
- » Sense of responsibility
- » Ability to organize and schedule projects

Geographical Information System Internships / Co-ops GE000005

Entity

AREVA NC –Mining Business Unit – Geosciences Department
Internships in Paris, La Defense, France

Missions

- » Bibliographical research on GIS
- » Cataloguing and mapping of studied geographical regions
- » Safeguarding our « mining » heritage in a numerical format
- » Organize the information originating from our archives, which is not exploitable in its current state.
- » Collecting GIS information (geological, geophysics, geochemical, remote sensing, mineralization data, etc. . . and/or participating in GIS field projects

Requested Profile

- » University student in Geology or GIS
- » Good knowledge of Geographical Information Systems
- » Available for a 4 to 6 month period
- » Languages: French a minimum requirement (proficiency in reading and writing), English, Russian, Spanish or Arabic appreciated.
- » Good team player
- » Analytical and reasoning skills
- » Sense of responsibility
- » Ability to organize information and work independently

Geophysics Internship / Co-op GE000006

Entity

AREVA NC –Mining Business Unit – Geosciences Department
Internship in Paris, La Defense, France

Missions

- » To seek, compile and jointly interpret the geophysics (magnetism, gravity surveys, satellite or air) and geological data available on a worldwide and continental scale
- » Geophysics bibliographical research
- » Use of application software (Geosoft™, Profile Analyst™, Map Info™...)
- » Geophysics/geology coupling
- » Specific internship/co-op topic will be defined with mentor and adapted to the ongoing Mining BU projects and candidate's skills

Requested Profile

- » University student in Geophysics with knowledge in geology.
- » Available for a 4 to 8 month period
- » English required, minimum intermediate French, other languages appreciated
- » Sense of innovation
- » Good team player, yet able to work independently
- » Analytical and reasoning skills

Mining Research & Reserves Internships / Co-ops MIN00032

Entity

AREVA NC –Mining Business Unit – Strategy Department
Internships in Paris, La Defense, France

Missions

- » Reserves estimation and technical studies on Mining BU uranium or gold deposits
- » Comparative studies between estimations and current production on an AREVA uranium or gold deposit
- » Possibility of working on R&D topics in order to develop new estimation or mining geostatistics techniques.

Requested Profile

- » A 3rd or 4th year university student in engineering in Mining, geology and/or geostatistics
- » Available for a 4 to 8 month period
- » English required, minimum beginner French, other languages appreciated
- » Familiar with professional applications such as Gocad and Surpac
- » Preferably have already realized a field experience in mining or geology during a summer job
- » Willing to relocate to Paris, France during the internship or co-op

Mining Engineering Internships / Co-ops MIN00034

Entity

AREVA NC –Mining Business Unit – Expertise and Technical Services Department
Internships in Africa, Canada or Central Asia

Missions

- » Participate in the daily mining activities of an AREVA mine with experienced Mining Engineers: (ex: Mine planning, maintenance, extraction, projects)
- » Make suggestions in the organization of mining extraction, or in new mining techniques
- » Begin putting into place your suggested solutions if validated by management.

Requested Profile

- » 3rd or 4th year Mining engineering student
- » Available for a 4 to 8 month period
- » English required, other languages appreciated
- » Good knowledge of Word; Excel and Outlook
- » Organized and like taking initiatives
- » Good team player
- » Able to keep engagements

Maintenance Engineer Internships / Co-ops MAI00226

Entity	<p>AREVA NC – Mining Business Unit – Expertise and Technical Services Department Internships in Africa or Asia</p>
Missions	<ul style="list-style-type: none"> » Analyze the mill's maintenance problems (material and organizational aspects) » Make recommendations and evaluate their feasibility » Deploy and follow the work of different departments (mechanics, electricity, instrumentation, controls...) in topics linked to maintenance
Requested Profile	<ul style="list-style-type: none"> » University student in Engineering » Available for a 4 to 8 months period » Experience in a maintenance or research department » Good networking skills in order to coordinate between different teams (process, exploitation, maintenance, purchasing/supply...) » Geographic mobility » Open to different cultures

Process Engineer Internships / Co-ops MIN00033

Entity

AREVA NC – Mining Business Unit – Expertise and Technical Services Department
Internships in Paris, La Defense (France) or Africa, Asia, Canada

Missions

- » Research and identify different uranium mills and the techniques employed in these mills
- » Review flow sheets, operating data and ore characteristics
- » Compare studies of key parameters
- » Daily work with process engineers

Requested Profile

- » University student in Chemical Engineering, Mineral Processing Engineering or Metallurgy
- » Available for a 4 to 8 months period
- » Excellent English and French, other languages appreciated
- » Open to different cultures
- » Good research and writing skills
- » Familiar with ore processing

Project Department Engineer Internships / Co-ops PR000452

Entity

AREVA NC – Mining Business Unit – Project Department
Internships in Paris, La Defense (France) or Africa, Asia, Canada

Missions

- » You will participate in the development of mining projects in a team of project engineers
- » Depending on your initial training and experience, you will intervene on different topics such as project planning, risk evaluation, studies, trials & starts, procurement, engineering, construction, technical & economical evaluations

Requested Profile

- » University student in Engineering with preferably additional training in Project Management
- » Available for a 4 to 8 months period
- » Proficiency in English required, other languages appreciated
- » Interest for international opportunities

How to apply ?

Online on www.aveva.com, heading « **careers** »

- ➔ Register your profile
- ➔ Using the reference number of key words, apply directly to the offers you are interested in



Do not forget to upload your resume (CV) and covering letter mentioning your availabilities