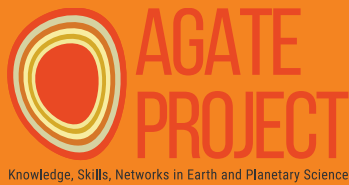


Structural analysis through field mapping and implications for metallogeny



PROFESSIONAL TRAINING COURSE

1st to 8th December 2026
Bakel, Senegal



This training course covers the techniques and methods of structural mapping and its contribution to understanding metallogeny.

Participants will gain the knowledge and skills to effectively plan and conduct structural mapping exercises and to autonomously interpret and present the gathered data to construct a cohesive structural model.

Through examples, participants will also be trained to integrate structural geology into the modeling of metallogenic processes in general.

Who Should Attend

This eight-day training (including 2 travelling days to the field), is intended for geologists who want to:

- Expand their skills in conducting field mapping and use the collected data to perform structural analysis and generate comprehensive structural models.
- Improve their understanding of the implications of deformation processes and structures on mineralisation.

What You Will Learn

By the end of the course, participants will be able to:

- Plan and conduct a structural mapping campaign, from the design of traverses to systematic data acquisition in the field;
- Identify, describe and measure the main ductile and brittle structures (foliations, lineations, folds, shear zones, faults, veins) and establish their relative chronology;
- Acquire, digitise and manage structural data using digital tools (FieldMove / FieldMove Clino, MapInfo Discover or ArcGIS);
- Process and interpret orientation data using stereographic projection;
- Build geological maps and cross-sections and integrate them into a coherent structural model at the appropriate scale;
- Relate the deformation history to fluid flow and identify the structural controls on mineralisation;
- Present and defend their structural interpretation to their peers.

Program

Course elements / Strengths

<i>Prior to departure to Bakel</i>	2-hour online sessions - week (s) prior to departure to Bakel on • Structural 1: Fundamentals • Structural 2: Faults • Structural 3: Folds • Metallogeny1: Fundamentals • Metallogeny2: Orogenic gold • Mapping tools and stereographic projection
<i>Day 1 1 Dec</i>	Travelling to Bakel (from the city of Thies) by private bus
<i>Day 2 to 4 2,3,4, Dec Bakel</i>	Structural mapping techniques on the field • Presentation of the regional and local geological setting, • Semi-regional cross-section (60 km) of the Hercynian Belt of the Mauritanides (Bakel area), • Identification and interpretation of key structures in the field, • Relation between structures and mineralization (gold, copper), • Initiation of the use of practical GIS tools.
<i>Days 5 and 6 5,6 Dec Bakel</i>	Detailed mapping Field mapping of perimeters assigned to each group (participants are subdivided in groups of 4).
<i>Day 7 7 Dec Bakel</i>	Synthesis and presentation of results Data processing, construction of the structural model and presentation of each group's result. Implementation to their own projects.
<i>Day 8 8 Dec</i>	Travelling back to Dakar / End of the training

Skill Development: Participants will acquire skills to effectively plan and conduct structural mapping exercises, interpret data autonomously, and construct cohesive structural models. Usually, exploration geologists are strong at identifying structure on the field (or even on cores) but lack skills to integrate and analyze them to produce a solid structural model at a given scale.

Integration of Structural Geology and Metallogeny: The training includes examples on integrating structural geology into metallogenic processes, which is crucial for understanding mineralization. It will help the participants to gain a solid comprehension of how structures play a major role conveying fluids and creating damage and dilation zones that allow the metal being transported to get settled.

Field Experience: Participants will gain hands-on experience through field mapping, which is essential for practical learning and application of skills. In addition, the chosen area for the training is known for hosting well preserved exposure of different types of structures (from pure ductile structures of all types to brittle ones).

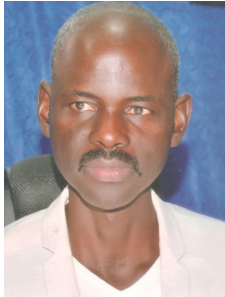
GIS and Technological Tools: Introduction to practical GIS tools and the use of FieldMove Clino and FieldMove for data acquisition, ensures participants are familiar with modern technological tools. The training will show the participants how to make their mapping easier and more accurate and how to facilitate data visualization and analysis.

Collaborative Learning: Participants work in groups for detailed mapping exercises, fostering team-work and collaborative learning.

Course Leaders

All the instructors have experience in both mineral industry and academia. Their expertise ensures a high-quality training

Course Leader:



Prof. Mamadou Guéye, who holds a PhD in structural Geology from the University of Göttingen (Germany), is currently working at the University Cheikh Anta Diop, will lead the training. Prof. Mamadou Guéye brings over 20 years of experience interpreting structural geology datasets from field mapping. He specialises in analysing the structure and geometry of structurally controlled mineralisation. Pr Guéye will be assisted by:



Dr. Bocar Sy began his career by teaching in the geomatics certificate program at the University of Geneva for approximately ten years. Subsequently, at UAM, he took on the role of head of the geomatics program, where he developed course outlines and taught around ten GIS courses. These courses spanned a wide array of topics, including data acquisition and processing, mapping, and sharing. They also incorporated the latest advancements, such as story maps and dashboards.



Dr Cheikh Ibrahima Faye and Dr Ibrahima Dia worked for several years as exploration geologists before to their academic careers. Their teaching and research focus on fundamental and applied geology related to mineral resources. They have over 15 years of experience conducting geological mapping and integrating various datasets.



Photos from previous sessions

Information

December falls in the dry season in Senegal, and Bakel is hot and dry. Average temperatures are around 26 °C, with minimums of about 18 °C and maximums of about 34 °C. Participants should plan for sun protection and adequate hydration during field days.

Date:

1 to 8 December 2026

Duration:

8 days including 2 days of travelling. Travelling from Dakar to Bakel takes one day each way.

+ 6 x 2 hours online sessions in the week(s) prior to the departure to Bakel.

For each session, clear and concise supporting materials, such as lecture notes, PowerPoint presentations, practical exercises, and videos will be sent to participants in advance.

Location:

Bakel

Time:

From 7:30 am

Language:

French

Registration Fees:

Net price: USD 3,500 per attendee

Please note that this amount will be increased by any applicable withholding tax.

The fee includes:

1 night accommodation at a hotel in Thies, before the departure to Bakel

7 nights accommodation at the hotel in Bakel with breakfast, lunch and dinner.

Lunch during the road trips.

Transport from Dakar to Bakel and return.

Currency of invoice: AUD (or USD) - Payment is required prior to the start of the training.

Registration deadline:

15 October 2026

Certificate of participation:

Participants will receive their certificate at the end of the training course.

Requirements for attendees:

Participants can install FieldMove Clino app on their mobile phones or FieldMove on their tablets for data acquisition.

To bring:

Each participant must bring their own computer (plus a tablet if possible.) GPS/compass (Silva)/10x magnifying glass, we can provide one if necessary.

Appropriate field trip clothing, including walking shoes, hat, water bottle.

Small Bag pack for the field excursions.



Registration



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1 to 8 December 2026

Please complete this form

and return to corinne.debat@agate-project.org before the 15 October 2026

Company

Entity to invoice

Address

.....

Phone

Administrative Email contact

Attendee's Name(first name, SURNAME, email):

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Attendee's Name (first name, SURNAME, email)

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Attendee's Name (first name, SURNAME, email)

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Attendee's Name (first name, SURNAME, email)

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Fees and Currency

	US\$ - net	AU\$ - net
Select your preferred invoicing currency		
Base registraton Fee	3,500.00	4,900.00

Whithholding Tax if applicable	%

The organisers reserve the right to cancel the training if the minimum requirement of 12 participants is not met.