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COURSE BROCHURE

Management and Leadership Skills for Research Scientists Training Course

16 – 20 May 2027
Cairo

Management and Leadership Skills for Research Scientists Training Course

Ref: 1684_61707 **Date:** 16 – 20 May 2027 **Location:** Cairo **Fees:** 3500 GBP

Management and Leadership Skills for Research Scientists is a 1-week training course for scientists, laboratory heads and R&D specialists who now lead researchers, technicians and students, and who leave with a Research Group Leadership Plan. Research organisations face tighter funding cycles, shared instruments and multidisciplinary projects, so a brilliant scientist who cannot plan, delegate or motivate slows the whole group. Jupiter Prime Training offers this course on management and leadership skills for research scientists.

Why Management and Leadership Skills for Research Scientists Matters Now

Three forces shape research leadership today: funders and sponsors who expect milestones and reporting, laboratories that share costly equipment and must schedule it fairly, and early-career researchers who want mentoring rather than instruction alone. Groups led well publish, deliver and retain talent; groups led poorly miss milestones, duplicate experiments and lose people to burnout. The course draws on Tuckman's stages of group development, the GROW coaching model Goal, Reality, Options, Way forward, the RACI responsibility matrix and the Eisenhower urgency-importance matrix.

Who Gains Most from Management and Leadership Skills for Research Scientists

- Principal investigators responsible for a research group's projects and people
- Laboratory heads scheduling instruments, technicians and sample workflows
- R&D specialists leading product or formulation projects in industry
- Quality control and testing lab supervisors managing analysts on shifts
- Senior scientists supervising doctoral students and postdoctoral researchers

Several leaders from one institute or R&D centre gain most together, as they can align supervision and resource-sharing habits.

Management and Leadership Skills for Research Scientists Capabilities

The capabilities move a scientist from running experiments to running a productive, motivated research group.

- Design a project plan with milestones and decision gates — funders and sponsors
- Apply the RACI matrix to share lab and project responsibilities — technicians and co-investigators
- Build delegation habits that develop researchers without losing scientific rigour — group capacity
- Communicate expectations and give feedback with the GROW model — students and early-career staff
- Assess motivation and workload signals across the group — retention and wellbeing

- Weigh competing requests for instruments and time — fair allocation decisions

Key Management and Leadership Skills for Research Scientists Terms

- Research group — a team of scientists, technicians and students working under one lead on related questions or projects.
- Principal investigator — the scientist accountable for a research project's direction, budget, people and outputs.
- Milestone — a defined, checkable point in a project that shows progress to funders or managers.
- RACI matrix — a chart showing who is Responsible, Accountable, Consulted and Informed for each task.
- Delegation level — how much authority is handed over, from doing as instructed to deciding independently.
- Mentoring conversation — a structured discussion that helps a researcher plan their development and solve problems themselves.

Management and Leadership Skills for Research Scientists Day by Day

Day 1: From Bench Scientist to Group Leader

- Scientist-to-Leader Role Shift — What Stops and What Starts
- Research Group Stakeholder Map — Funders, Sponsors, Collaborators and Students
- Tuckman Stages in Research Groups — Diagnosing Where the Group Stands
- Leadership Style Self-Assessment — Directive and Supportive Tendencies
- Group Purpose Statement — Linking Research Questions to Shared Goals

Day 2: Planning Research Work

- Work Breakdown for Research Projects — Experiments, Analysis and Write-Up
- Milestones and Decision Gates — Reporting Progress to Funders
- Instrument and Lab Scheduling — Fair Use of Shared Equipment
- Eisenhower Matrix for Scientists — Protecting Deep Research Time
- Risk Log for Experiments — Anticipating Delays and Failed Runs

Day 3: Delegation and Responsibilities

- RACI Matrix for Lab Operations — Clarifying Who Owns Each Task
- Delegation Levels — Matching Authority to Researcher Experience
- Technician and Student Task Briefs — Clear Protocols and Outcomes
- Data and Notebook Standards — Shared Expectations for Record Keeping
- Collaboration Agreements — Roles Across Partner Labs and Departments

Day 4: Motivation, Feedback and Performance

- Motivation Drivers in Research Careers — Autonomy, Mastery and Purpose
- GROW Model Mentoring Conversations — Developing Students and Postdocs
- Constructive Feedback on Scientific Work — Rigour Without Discouragement
- Underperformance Conversations — Agreeing Improvement Steps and Support
- Wellbeing Signals in Research Groups — Workload, Isolation and Burnout

Day 5: Practising the Research Group Leadership Plan

- Group Project Planning Simulation — Applying Milestones and Scheduling
- Delegation Role-Play — Using RACI and Delegation Levels
- Mentoring Rehearsal With Peer Observers — Applying the GROW Model
- Resource Conflict Case — Allocating Instruments and Time Fairly
- Research Group Leadership Plan — Final Version for the Home Group

Applying Management and Leadership Skills for Research Scientists After the Course

- Build a RACI matrix for the group's main lab operations and agree it at the next group meeting.
- Hold a GROW mentoring conversation with each student or junior researcher within the month.

Management and Leadership Skills for Research Scientists Questions FAQ

What are management and leadership skills for research scientists, and why do they matter now?

They are the planning, delegation, mentoring and motivation skills a scientist needs to lead a research group. They matter now because funders expect milestones and groups share scarce equipment, so leadership gaps quickly delay results.

Which roles gain most from management and leadership skills for research scientists?

Principal investigators, lab heads and R&D project leads gain most. You benefit if you supervise researchers in a university laboratory, a pharmaceutical R&D unit or an industrial testing lab.

How do management and leadership skills for research scientists differ from first-time manager training for engineers?

They centre on research groups rather than engineering crews. The course covers funder milestones, shared instruments, student supervision and scientific feedback instead of design reviews or site crews.

What do you bring back from management and leadership skills for research scientists?

You bring back a leadership plan for your group. It holds a milestone plan, a RACI matrix, delegation choices and mentoring commitments, tested in simulations with peer feedback.

Management and Leadership Skills for Research Scientists: The Way Forward

The Research Group Leadership Plan turns the course into concrete habits for running a group. It first informs how tasks and instruments are shared in the coming month. The group lead owns it and shares it with researchers, technicians and the department head. After the first funder report, revisit which milestones slipped and why.