

# Human Resource Development in R & D through Nature Research's Author Services

For



**nature**research

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## About this document

This document is to aid all concerned parties to explore options and distil key requirements of the proposal described herein, thereby serving as a discussion platform to agree upon mutual goals. As such, this document is a work in progress until all concerned parties thoroughly review and agree upon the contents.

### About RISTEKDIKTI

RISTEKDIKTI is the Ministry of Research, Technology & Higher Education in Indonesia. Its strategic goal is to improve the quality and quantity of human resources with higher education in Indonesia by equipping them with the ability to leverage on science, technology and innovation for national competitiveness.

### About Springer Nature

Springer Nature<sup>1</sup> is the world's largest academic book publisher, publisher of the world's most influential journals and a pioneer in the field of open research. Our mission is to enable the advance of research and to help the research community to improve outcomes. Through our portfolio of journals, books, databases and solutions we enable researchers, students, teachers and professionals to access the full depth and breadth of science, technology, medicine, social sciences and humanities.

#### About Nature Research

Nature Research<sup>2</sup> is a flagship portfolio of journals, products and services – at the heart of which is *Nature* (launched in 1869), the leading weekly, international scientific journal. Nature Research publishes a range of research and reviews subscription journals, alongside leading open access, multidisciplinary journals Nature Communications and Scientific Reports, and the Nature Partner Journals. Nature.com receives 3.5 million unique users a month, viewing more than 8 million pages.

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<sup>1</sup> <http://www.springernature.com/>

<sup>2</sup> [www.nature.com/ip](http://www.nature.com/ip)

Nature Research also offers a range of services, including training such as Nature Masterclasses and Nature Research Academies, language and scientific editing and the leading science jobs board Naturejobs.

## Executive Summary

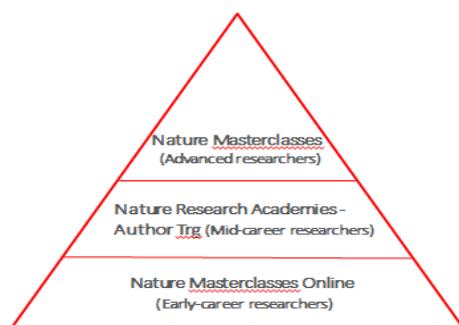
**Nature Research’s Masterclasses, Nature Research Academies, and Editing Services are ideal first steps for RISTEKDIKTI to accelerate Indonesia’s R & D by increasing the number of high-quality publications. Please see diagram (on next page) of a pyramid which describes a sustainable programme to grow research capability in Indonesia.**

For Advanced researchers, Face-to-Face Nature Masterclasses would be suitable. This is where we have we have editors of relevant Nature Research journals visit Indonesia and conduct Face-to-Face **Nature Masterclasses**. For this initiative to be successful, we strongly recommend that a maximum of 30 candidates from **Indonesia** meet the following minimum criteria in order to attend the Nature Masterclasses:

- (1) Teaching faculty with PhD degree
- (2) Basic Written & Spoken English
- (3) Already published in a journal indexed in Journal Citation Reports (minimum 1 paper )
- (4) Planning to publish a paper in the next 6 months
- (5) Discipline needs to match with Nature journals (see [Appendix A](#) for list of Nature journals)

For **mid-career researchers** from Indonesia, we propose **Nature Research Academies’ Author training** workshops. This is where we have a highly experienced trainer visit Indonesia and conduct the workshop for mid-career researchers. It is very successful with clients in Asia and the Middle East. In fact, our first and very successful Nature Research Academies for Authors was conducted at Inst Tek Bandung on 30-31 July 2018.

### A Sustainable Training Programme to grow Research Capability (Author Training)



Indonesian researchers will also benefit from our **Scientific Editing**<sup>3</sup> and **Language Editing** service offered by Nature Research Editing service<sup>4</sup>. For scientific editing, this means that your researchers' work will be edited by our *Nature*-standard developmental and language editors. Researchers can benefit from the editing that will make a difference – most of our PhD-qualified editors also have experience of making decisions on scientific manuscripts at highly selective journals, so they understand what makes a great paper. Each manuscript will be edited in detail by at least two *Nature*-standard editors, who also provide constructive feedback and publishing advice in the accompanying report. For language editing, your manuscripts will be looked at by editors whose recommendations, if followed, will help make it look that it's written by a native English-speaker.

We trust this proposal will meet your needs and look forward to hearing your response.

## 1. Nature Masterclasses: Face-to-Face

### Nature Masterclasses – face to face trainings

Nature Masterclasses is a highly interactive training course in scientific writing and publishing, which is held for 2 days. During the highly interactive course the participants will learn practical techniques and strategies from two *Nature* journal editors to help produce high-quality research papers that appeal to the highly reputable science journals.

#### Tailored To Your **Institution**:

- The *Nature* journal editors and course content are matched to your researchers' area of science. The Discipline needs to match with *Nature* journals for us to get the appropriate editors to conduct the *Nature* Masterclasses (please see [Appendix A](#) for list of *Nature* journals)
- The course content is matched to your researchers' experience of publishing
- Classroom style for up to 30 pax

#### **Interactive Learning**

- 3 - 4 short lectures, interspersed with 1 – 2 interactive sessions per day: From "Questions & Answers" sessions and group discussions, to individual and group exercises
- Participants are encouraged to bring an abstract of their manuscript to discuss with the trainers (on Day 2, one-on-one discussion time).

#### **Main focus area**

- Life Sciences
- Physical Sciences

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<sup>3</sup> <http://authorservices.springernature.com/scientific-editing/>

<sup>4</sup> <http://authorservices.springernature.com/>



## 2. Nature Research Academies - Author Training

Publishing is an integral part of the research process. However, it is not enough to simply publish research, it needs to be published in the appropriate journals to reach the right audience and be communicated clearly to have impact in the field. Coupled with increasing competition in the academic community, researchers need to develop the right skills to be successful in publishing their work. By doing so, researchers will not only increase their chances of publication acceptance, but also their international reputation in the field. Drawing on our breadth of experience in scholarly publishing, this Nature Research Academies training workshop from Springer Nature aims to help researchers learn effective publishing strategies to achieve these goals.

### Choice of Focus Areas from as follows:

- Life Sciences
- Physical Sciences & Engineering
- Clinical Research & Medicine
- Social Sciences & Humanities

Format is theatre-style for up to 250 pax.

Below are the modules for the Author Training workshop. We will agree on modules to be included for the 2-day training tailored to clients' specific needs and development stage.

- Evaluating the literature & reading strategies
- Publication ethics
- Academic English & effective writing strategies
- Logical manuscript structure
- Effective publication strategies
- Successful manuscript submission
- Manuscript revision & navigating peer review
- Impressive academic presentations
- Book/Chapter writing
- Collaborative writing

For curriculum details, please see [Appendix B](#).



## 3. Nature Research Editing Services

### Scientific Editing

This is a service where Nature-standard Editors review and edit manuscripts in detail. The Editors are PhD-qualified in the relevant topic of the manuscript being edited. They've worked as editors in high-impact journals at a variety of publishers, and in some cases, as Chief Editors. There are 3 steps to editing the manuscript:

#### Step 1: Language Editing

The 'raw' manuscripts first undergo English Language Editing to correct spelling, grammar and punctuation errors. This allows the editors in the all-important later stages to focus on your ideas and not your language usage.

#### Stage 2: Developmental Editing

This is the main stage of the scientific editing process. It is performed by a Nature-standard developmental editor who is selected specifically for his or her understanding of the science within your paper. The edits and advice encompass:

- How well your argument reflects your central question or objective
- The structure, clarity, flow and relative emphasis of the arguments
- The description of your rationale, your methods and how your conclusions were derived
- The presentation of context and of any objectively justifiable implications of the research
- The clarity and suitability of your figures, tables and supplementary information
- Any sections that lack detail or are unnecessarily long
- The effectiveness of your cover letter and other supporting materials (if provided)

### Stage 3: Quality Assurance Audit

In the final stage, your text is comprehensively reviewed by another Nature-standard editor. This editor examines the text again in detail and provides additional edits and feedback to ensure that our editing and advice are as useful to you as possible.

The editors will review manuscripts within the specified areas of study in natural sciences (see [Appendix C](#)).

### English Language Editing

Our English Language Editing services help to improve your written English so that your research stands out. Nature Research will comprehensively language-edit all your research-related manuscripts, such as research papers, grant applications, books, theses, reports and news articles.

The editing service places great emphasis on the overall flow of the language as well as correcting fundamental language errors and rephrasing or pointing out awkward and confusing sentences. The editors will also provide detailed edits or suggestions for language improvement. They will focus on the finer points of style and on improving the flow of your sentences. You will receive a personalized summary of the English language editing performed on your document. The summary will provide detailed feedback and highlight the common English language errors in your document, thereby helping you improve your writing skills in the future. Editors will not edit for research content or formatting and will not translate text from another language.

## Prices <sup>a,b</sup>

### (i) Nature Masterclasses: Face-to-Face

- 1-day: US\$ 29,000 per workshop
- 2-days: US\$ 38,000 per workshop

### (ii) Nature Research Academies: Author Training workshops

- 1-day: US\$ 8,500 per workshop
- 2-days: US\$ 12,500 per workshop

### (iii) Scientific Editing

- US\$ 3,800 per manuscript (<12,000 words)
- Turnaround 21 working days

### (iv) English Language Editing

- US\$ 500 per manuscript (<12,000 words)
- Turnaround 14 working days

- Prices quoted for the Training Workshops above (i & ii) do not include rental of training venue/facilities/food & beverages/ airfare/hotel/meal costs for delegates if/when they visit for the workshops. All local logistics, room hire, audio visual equipment (slide projectors), catering for any breaks (if required) and other on-site organizational issues will be provided by the host institute.
- Prices are in US Dollars, and do not include taxes ie withholding tax or VAT/GST. Validity of this quotation is until December 31, 2018.

## Contacts

### Nature Research

Rajdev Narayanasamy

Manager – Institutional & Corporate Partnerships  
SE Asia  
Nature Research  
rajdev.narayanasamy@nature.com  
+65 6201 4015

# Appendices

## **Appendix A: Nature Research Journals**

- Nature
- Nature Biotechnology
- Nature Cell Biology
- Nature Chemical Biology
- Nature Chemistry
- Nature Climate Change
- Nature Communications
- Nature Energy
- Nature Genetics
- Nature Geoscience
- Nature Immunology
- Nature Materials
- Nature Medicine
- Nature Methods
- Nature Microbiology
- Nature Nanotechnology
- Nature Neuroscience
- Nature Photonics
- Nature Physics
- Nature Plants
- Nature Protocols
- Nature Structural and Molecular Biology
- Nature Astronomy
- Nature Biomedical Engineering
- Nature Ecology & Evolution
- Nature Human Behaviour

## **Nature Reviews Journals**

- Nature Reviews Cancer
- Nature Reviews Cardiology
- Nature Reviews Clinical Oncology
- Nature Reviews Disease Primers
- Nature Reviews Drug Discovery
- Nature Reviews Endocrinology
- Nature Reviews Gastroenterology and Hepatology
- Nature Reviews Genetics
- Nature Reviews Immunology
- Nature Reviews Materials
- Nature Reviews Microbiology

- Nature Reviews Molecular Cell Biology
- Nature Reviews Nephrology
- Nature Reviews Neurology
- Nature Reviews Neuroscience
- Nature Reviews Rheumatology
- Nature Reviews Urology
- Nature Reviews Chemistry

**Appendix B: Details of Modules Covered in Nature Research Academies – Author Training Workshop. There are 10 modules, of which 4 modules can be selected for a 1-day workshop, or 8 modules can be selected for a 2-day workshop.**

**1. Evaluating the literature & reading strategies (90 minutes)**

Being able to efficiently evaluate the literature is essential not only for formulating your research topic, but also for writing a high-quality manuscript. We first discuss different online tools and databases to find relevant articles and stay up-to-date in your field. We will then cover effective reading strategies, both alone and with others, and how to identify important trends in your field. Lastly, we will discuss paper and reference management tools, such as Mendeley and EndNote, that allow you to effectively organize the literature and your citations.

*Activity:* Attendees will be given an abstract and need to quickly skim the text to identify a series of questions related to the content.

**2. Publication ethics (90 minutes)**

Journal editors expect that authors understand and follow international ethical guidelines. This module will cover the important aspects of publication ethics that authors should be familiar with. We will first discuss modifying your images. Then, we will cover authorship qualifications how to avoid unethical gift and ghost authorship. Different types of conflicts of interest will be discussed and why they are important to disclose to the journal editor and your readers. Next, how to properly submit your manuscript to one journal at a time to avoid duplicate publication will be discussed. We will then cover plagiarism and how to properly paraphrase and cite published ideas. Lastly, we will discuss the importance of transparency and sharing all the results from your study.

*Activity:* Attendees will be given a series of real-life situations and discuss what is the most ethical course of action for each.

**3. Academic English & effective writing strategies (120 minutes)**

Regardless of how important your findings are, if people cannot understand them, they will have no impact. This module will emphasize how to clearly communicate your ideas in English. We will first discuss cognitive theories of learning and how to apply these principles in your writing. We next review improving readability and avoiding ambiguity to improve clarity. We will also cover logically

structuring sentences and paragraphs in your manuscript. Lastly, we highlight effective writing strategies to make writing your manuscript more efficient, particularly with multiple author papers.

*Activity:* Attendees will need to improve the readability of poorly written sentences.

#### **4. Logical manuscript structure (120 minutes)**

To be an effective communicator, you need to guide your reader through your study with a logically structured manuscript. In this section, we will discuss professional writing strategies to clearly communicate the significance and relevance of your study to your reader throughout your manuscript. We will also review how to write an effective title and abstract that gives the best first impression of your study.

*Activity:* Attendees will need to identify which aims are most appropriate for an identified research problem, as well as which title is most effective to attract potential readers.

#### **5. Effective publication strategies (90 minutes)**

Choosing the right journal to share your research is one of the most important decisions you will make. This section will focus on when and how to choose the most appropriate journal for your manuscript. We discuss evaluating factors related to the findings, such where and for whom are they relevant. We will then review how to improve the suitability of your manuscript specifically for the journal.

*Activity:* Attendees will need to identify the most suitable journal for a specific study.

#### **6. Successful manuscript submission (90 minutes)**

Journal editors receive many submissions every day. Therefore, it is important to effectively communicate with them to increase your chance of acceptance. In this module, we first discuss what journal editors are looking for in submitted manuscripts and the challenges they face during their evaluation. We then review how to write a cover letter that emphasizes the suitability of the manuscript for the journal and gets the journal editor's attention. Lastly, we highlight additional requirements journals may have, such as forms and recommending reviewers, that authors need to address upon manuscript submission.

*Activity:* Attendees will need to improve a poorly written cover letter to address suitability and relevance for the journal.

#### **7. Manuscript revision & navigating peer review (90 minutes)**

Successfully navigating peer review is the final step before acceptance. In this section, we will cover what reviewers are focusing on, and then how to interpret the journal editor's decision letter. We then discuss how to organize and interpret reviewer comments to simplify the revision process. What to do if you receive unfair comments will also be covered. We will then discuss how to write an effective response letter with point-by-point responses to all the reviewer comments. Lastly, we will discuss the strategies you should consider if your manuscript has been rejected, such as transferrable peer review by the publisher, resubmission to a new journal, or resubmission to the same journal as a new submission.

*Activity:* Attendees will need to determine which response is best for a reviewer comment.

#### **8. Impressive academic presentations (120 minutes)**

Presenting your work to an international audience is an important way to share your research and network with others in your field. However, doing so in a second language is always challenging. Therefore, this section will give attendees the skills and confidence they need to present at international conferences. We begin by discussing the advantages of presenting your work, both before and after publication. We then move on how to make a professional slide decks and posters that will clearly communicate the significance and relevance of the study. This will be followed by a discussion of professional presentation skills—both verbal and non-verbal—to effectively communicate your study. Lastly, we conclude this module by discussing how to facilitate effective Q&A sessions to promote networking and collaborations.

*Activity:* Attendees will need to determine how to improve poorly designed slides and posters.

### 9. Writing books/chapters (120 minutes)

Although journal articles are important for many fields, contributions to books can also play an important role in the development of both one's career and for the field. However, there are important considerations that should be addressed when writing an impactful chapter or book. This module aims to discuss the importance of books for researchers as well as how to properly prepare and write a chapter or book that will have influence in the field.

*Activity:* Acting as an editor for a contributed volume, what changes would you recommend to the authors of two chapters based on their summarized.

### 10. Collaborative writing (120 minutes)

International collaborations are an excellent way to further advance your research, but can make writing manuscripts more challenging. This section will focus first on the importance of collaborations to improve your research output followed by the common challenges these collaborations may have. We then discuss writing strategies to improve writing a manuscript among multiple co-authors living in different regions. Lastly, we review different collaborative writing platforms that can facilitate the preparation of collaborative manuscripts.

*Activity:* attendees will be given real-world scenarios and decide the most appropriate course of action

## **Appendix C: Disciplines for Scientific Editing**

This list is specific to Scientific Editing, which edits only in the natural sciences. Our other service, English Language Editing, edits not only in the natural sciences, but also in other academic subjects such as engineering, humanities and social sciences.

#### **Astronomy and Planetary Science**

- Astronomy
- Cosmology
- Other Astronomy and Planetary Science
- Planetary Science

- Theoretical Astrophysics

#### **Biology**

- Agriculture
- Biochemistry
- Bioinformatics

- Biological Chemistry
- Biophysics
- Biotechnology
- Cancer Research
- Cardiovascular Biology
- Cell Biology
- Computational Biology
- Conservation Biology
- Developmental Biology
- Drug Discovery
- Ecology
- Evolution
- Food Science
- Genetics
- Genomics
- Immunology
- Industrial Microbiology
- Marine Biology
- Microbiology
- Molecular Biology
- Neuroscience
- Other Biology
- Parasitology
- Pharmacology
- Plant Science
- Proteomics
- Structural Biology
- Systems Biology
- Zoology

#### Chemistry

- Analytical Chemistry
- Applied Chemistry
- Catalysis
- Chemical Biology
- Computational Chemistry
- Environmental Chemistry
- Inorganic Chemistry
- Materials Chemistry
- Medicinal & Pharmaceutical Chemistry
- Nuclear Chemistry
- Organic Chemistry
- Other Chemistry
- Physical Chemistry
- Spectroscopy
- Theoretical/Computational Chemistry

#### Earth and Environmental Science

- Atmospheric Science/Climate
- Geology

- Geophysics
- Geoscience
- Oceanography
- Other Environmental Science
- Palaeoclimate
- Palaeontology
- Planetary Geology
- Solid Earth Science

#### Engineering

- Biomedical Engineering (only if focusing mainly on biomedicine)
- Chemical Engineering (only if focusing mainly on chemistry)
- Materials Engineering (only if focusing mainly on materials)

#### Medicine

- Allergy
- Anesthesiology
- Cancer/Oncology

#### Medicine (continue)

- Cardiac Electrophysiology
- Cardiology – Interventional
- Cardiology – Noninvasive
- Cardiology and Circulation
- Clinical Genetics
- Clinical Immunology
- Clinical Pharmacology
- Clinical Psychology
- Clinical Trials
- Critical Care Medicine
- Dentistry
- Dermatology
- Dermatopathology
- Diabetes
- Emergency Medicine
- Endocrinology
- Epidemiology
- Family Practice
- Gastroenterology
- General Practice
- Geriatrics
- Gynecology
- Hematology
- Hematology – Oncology
- Hepatology
- Hypertension
- Infectious Diseases

- Internal Medicine
  - Maternal & Fetal Medicine
  - Neonatal-Perinatal Medicine
  - Nephrology
  - Neurology
  - Neurology – Child
  - Nuclear Medicine
  - Nursing
  - Nutrition
  - Obstetrics & Gynecology
  - Occupational Medicine
  - Oncology – Medical
  - Oncology – Radiation
  - Oncology – Surgical
  - Ophthalmology
  - Other Clinical Medicine
  - Otorhinolaryngology
  - Pain Medicine
  - Palliative Medicine
  - Pathology
  - Pediatrics
  - Physical Medicine & Rehab
  - Physiology
  - Preventive Medicine
  - Psychiatry
  - Psychiatry – Addiction
  - Psychiatry – Child
  - Psychiatry – General
  - Psychiatry – Geriatric
  - Public Health
  - Pulmonary Disease
  - Radiation
  - Radiology
  - Reproductive Endocrinology
  - Rheumatology
  - Sexual Dysfunction
  - Spinal Cord Injury
  - Surgery – General
  - Surgery – Specialist
  - Toxicology
  - Urology
  - Veterinary Science
- Physics**
- Atomic and Molecular Physics
  - Biological Physics
  - Computational Physics
  - Condensed-Matter Physics
  - High-energy Physics
  - Materials Physics
  - Nuclear Physics
  - Optics/Lasers
  - Other Physics
  - Plasma and Fluids

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