



American Academy for  
Yoga in Medicine

# Fellowship in Advanced Biomedical Research and Statistics Batch 6

OFFERED BY THE AMERICAN ACADEMY  
FOR YOGA IN MEDICINE (AAYM)

The 3-Month Fellowship in Advanced Biomedical Research and Statistics is your pathway to mastering cutting-edge research methodologies and making a meaningful impact in the global health and wellness community

**REGISTER  
NOW**

Starting from 3<sup>rd</sup> week of May

**Fees: Rs15000/-**



Register Now 

 [www.aaymonline.org](http://www.aaymonline.org)

 [Admissions@aaymline.org](mailto:Admissions@aaymline.org)



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# Why Choose Our Fellowship?

## Improved Visibility

Stand out as a thought leader in academic and professional circles.

## Enhanced Opportunities

Secure placements in prestigious PhD programs and coveted roles.

## Career Momentum

Unlock pathways for advanced studies, competitive grants, and influential collaborations.

## Inspiration and Legacy

Drive future discoveries, inspire others, and leave a lasting legacy of knowledge that transforms healthcare practices.



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# WHO CAN APPLY?

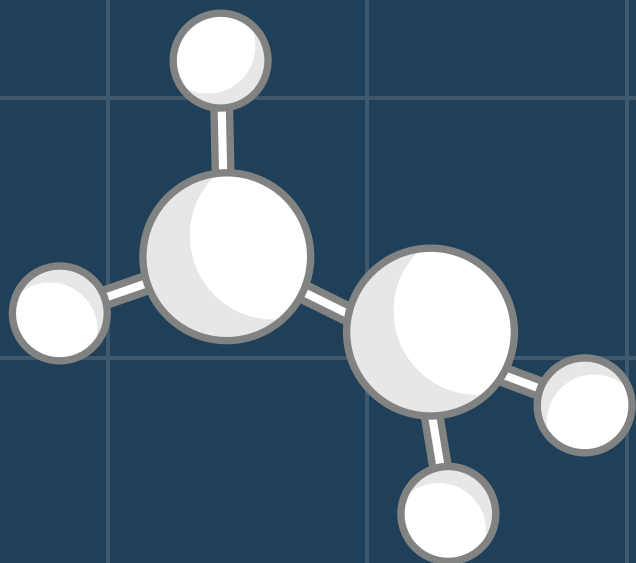
**We welcome applicants from diverse backgrounds, including -**

**Medical Professionals:** Doctors, nurses, physiotherapists, and practitioners from various healthcare systems.

**Students and Graduates:** Undergraduates, post graduates, and degree holders in Allopathic, Naturopathic, Ayurvedic, Homeopathic, and Siddha medicine.

**Researchers and Academicians:** Individuals interested in innovative health and wellness approaches .

**Clinicians:** Professionals integrating evidence-based research into their practice. Biomedical and Life Science Graduates Yoga Graduates



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# WHY CHOOSE THE AAYM FELLOWSHIP?

**Fellowships uniquely designed for professionals eager to bridge the gap between clinical practice and evidence-based research At AAYM**

**Master Core Research Skills:** Learn methodologies tailored to yoga, naturopathy, and integrative medicine.

**Gain Real-World Expertise:** Engage in hands-on training with practical, real-world applications.

**Learn from Experts:** Receive mentorship from accomplished researchers who blend academic rigor with clinical insight.

**Create Impactful Work:** Develop and publish research that shapes the future of integrative medicine.



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# What to Gain?

## Prestigious Certification

Earn an internationally recognized certification from AAYM, enhancing your credibility and career prospects.

## Career Advancement

Gain a competitive edge for top tier PhD programs, academic roles, clinical research positions, and publishing opportunities.

## Practical Expertise

Master essential skills like data collection, statistical analysis, and scientific writing, empowering you to produce high-quality research.

## Professional Network

Join a vibrant community of like-minded professionals, fostering growth, collaboration, and innovation.

## Enhanced Placement Opportunities

Your research background will significantly boost your profile, opening doors to elite PhD programs and in-demand job roles.

## Meaningful Contributions

Make a difference by advancing evidence-based practices and providing valuable insights to educators, practitioners, and researchers worldwide.



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## Modules Include:

### Module 1: Foundations of Research

- Understanding research methods, methodology, and study design.
- Formulating hypotheses and research questions.
- Differences between qualitative and quantitative research.

### Module 2: Research Designs & Clinical Trials

- Detailed exploration of experimental vs. observational study designs.
- Understanding randomized controlled trials (RCTs), cohort studies, case-control studies, and cross-sectional studies.
- Ethical considerations in research.

### Module 3: Exploring Data & Concept of Probability

- Understanding types of data (categorical, continuous, ordinal).
- Data collection, organization, and presentation techniques.
- Probability theory, central limit theorem, and standard distribution curve.



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## Module 4: Biostatistics Fundamentals & Descriptive Analysis

- Measures of central tendency (mean, median, mode).
- Descriptive vs. inferential statistics.
- Introduction to statistical software (SPSS, R, Python, Statastics).

## Module 5: Inferential Statistics & Advanced Analytics

- Hypothesis testing: p-values, confidence intervals.
- Survival analysis and Kaplan-Meier curves.
- Diagnostic statistics: Sensitivity, specificity, predictive values.

## Module 6: Conducting a Systematic Review

- Step-by-step methodology for conducting a systematic review.
- Database searches (PubMed, Scopus, Cochrane) and screening techniques.
- PRISMA guidelines and risk-of-bias assessment.



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## Module 7: Introduction to Meta-Analysis

- Understanding effectsizesand heterogeneityassessment.
- Fixed-effect vs. random-effects models.
- Introduction to meta-analysis software.

## Module 8: Conducting a Meta-Analysis

- Data extraction and coding.
- Pooling results and subgroup analysis.
- Publication bias and funnel plots.

## Module 9: Statistical Interpretation of Meta-Analysis

- How to interpret forest plots and heterogeneity.
- Understanding confidence intervals and risk ratios.
- Common errors in meta-analysis interpretation.



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## **Module 10: Network Meta-Analysis**

- Introduction to indirect comparisons and mixed treatment comparisons.
- Application of network meta-analysis in clinical decision-making.

## **Module 11: Research Proposal Writing & Medical Writing**

- Writing a compelling research proposal.
- Basics of grant writing and funding opportunities.

## **Module 12: Manuscript Preparation & Journal Submission**

- Structuring a high-impact scientific manuscript.
- Journal selection, formatting, and submission process.
- Responding to reviewer comments effectively.



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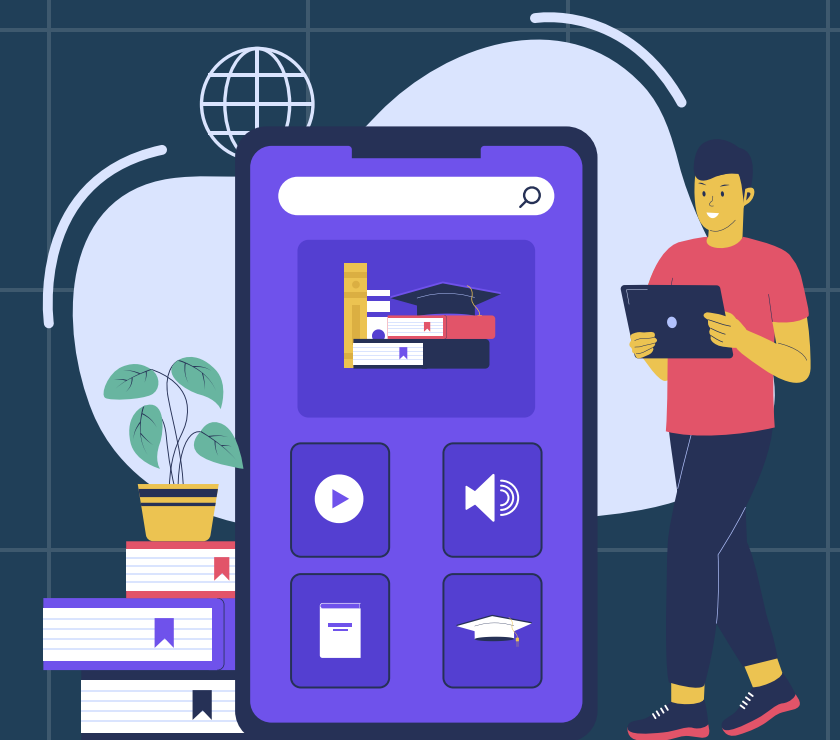


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# How to Apply

## Secure your spot today

Seats are limited to ensure personalized mentorship and a high-quality learning experience.



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