

# IUPESM Survey of Joint Medical Physics and Biomedical Engineering Departments and Actions

Please complete the survey below. Ethical approval for the collection and processing of data acquired from this survey has been obtained from the Scientific Ethics Commission, Medical University of Plovdiv, Bulgaria. Please note, you are under no obligation to participate or complete this survey. Participating is entirely voluntary and will not in any way impact your membership with your respective professional body who have forwarded this survey to you. Results from the survey will be collated and analysed to provide an insight into the workings of departments globally. These will be used to develop a strategy by IUPESM for strengthening the subject of medical physics and biomedical engineering. Findings will also be disseminated to our community through a journal publication in a journal which publishes on findings related to professional practice. For more information on the task group please visit the following link. Thank you!

**The questionnaire will begin on the next page.**

**Please do not include any personal information in your response.**

**Please complete all responses by .....**

**Please note that once a response has been submitted, it cannot be withdrawn.**

**Note: If a response is incomplete or has not been submitted before the deadline of this questionnaire, it will automatically be deleted by the software.**

Your response to this questionnaire will be used both for developing a strategy by IUPESM for strengthening the subject of medical physics and biomedical engineering, and for a journal publication to disseminate the findings to the wider community.

Yes I consent to participate

Please click yes to agree that you consent to participate in this questionnaire.

**Institution Information**

Institution Name:

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Main Focus of Institution:

- Healthcare
- Research
- Education
- Other

Please specify:

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Department Name:

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Is your department a Joint Medical Physics and  
Biomedical Engineering Department

- Yes
- No

Type of Department:

- Only Clinical
- Only Academic
- Clinical & Academic

Sections within Department:

- Clinical services for medical physics
- Clinical services for biomedical engineering
- Academic medical physics specialties
- Academic biomedical engineering specialties
- Other

Please specify:

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**Staff**

Members of staff in your department:

- Medical Physicists
- Engineers (Biomedical/Medical/Clinical)
- Computer/Data Science (including researchers)
- Technicians/Technologists/Operators (All including engineering)
- Other (please specify specialty and give numbers)

Number of Medical Physicists:

- 1-5
- 6-10
- 11-50
- 51-100
- 101+

Number of Engineers (Biomedical/Medical/Clinical):

- 1-5
- 6-10
- 11-50
- 51-100
- 101+

Number of Computer/Data Scientists (including researchers):

- 1-5
- 6-10
- 11-50
- 51-100
- 101+

Number of Technicians/Technologists/Operators (All including engineering):

- 1-5
- 6-10
- 11-50
- 51-100
- 101+

Number of Other staff (please specify specialty and approximate numbers):

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**Education**

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Does the department run its own educational programs in joint field of Medical Physics & Biomedical Engineering:

- Yes
- No

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Does the department run its own educational programs in non-joint fields:

- Yes
- No

**Educational Programs & New students admitted every year (if more than one undergraduate (like B.Sc, BE) or Masters course, please fill in options provided. If only one, then leave the others blank. Use Comment for additional courses:**

**Undergraduate courses (if not applicable leave blank)**

Name of Undergraduate course (1): \_\_\_\_\_

Average number of new students/year in this course (1):

- 1-5  
 6-10  
 11-50  
 51-100  
 101+

Name of Undergraduate course (2): \_\_\_\_\_

Average number of new students/year in this course (2):

- 1-5  
 6-10  
 11-50  
 51-100  
 101+

Name of Undergraduate course (3): \_\_\_\_\_

Average number of new students/year in this course (3):

- 1-5  
 6-10  
 11-50  
 51-100  
 101+

Additional courses (please use the same format as above): \_\_\_\_\_

Additional comments: \_\_\_\_\_

**Master's courses (if not applicable leave blank)**Name of Masters course (1):  
\_\_\_\_\_Average number of new students/year in this course  
(1):

- 1-5  
 6-10  
 11-50  
 51-100  
 101+

Name of Masters course (2):  
\_\_\_\_\_Average number of new students/year in this course  
(2):

- 1-5  
 6-10  
 11-50  
 51-100  
 101+

Name of Masters course (3):  
\_\_\_\_\_Average number of new students/year in this course  
(3):

- 1-5  
 6-10  
 11-50  
 51-100  
 101+

Additional courses (please use the same format as  
above):  
\_\_\_\_\_Additional comments (may also include some information  
on numbers majored in Medical Physics, Biomedical  
Engineering/Clinical Engineering, Imaging, Therapy  
etc):  
\_\_\_\_\_

**PhD (if not applicable leave blank)**

Total number of currently enrolled PhD students:

- 1-5
- 6-10
- 11-50
- 51-100
- 101+

Number of PhDs who qualified in last 5 years:

- 1-5
- 6-10
- 11-50
- 51-100
- 101+

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**Publications**

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Number of Research Publications in PubMed over last 5 years (if not applicable leave blank): \_\_\_\_\_

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PubMed link to some important publications:

\_\_\_\_\_



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**Grants**

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Number of Research Grants awarded in last 5 years (if not applicable leave blank): \_\_\_\_\_

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Select the funding bodies of the most significant grants:

- Government
- Charity
- Industry

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Approximate value of Research Grants awarded in last 5 years in USD (if not applicable leave blank): \_\_\_\_\_

**Spin Out Companies & Public Engagement**

Number of Spin Out companies in last 5 years (if not applicable leave blank):

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**Workload**

Clinical engineering/physics workload: Please provide information on the number of tests of different types and approximate hours of workload (average per year)

- Quality control tests of imaging machines
- Others

Number of machines tested annually:

- 1-5
- 6-10
- 11-50
- 51-100
- 101+

Specify the names of other tests, the number of tests using the same format as above:

\_\_\_\_\_

**Medical Physics and Biomedical Engineering Departments**

Benefits of being a joint Medical Physics and Biomedical Engineering Department:

\_\_\_\_\_

Indicate if you were to establish a new department, would you like a combined one or separate for Medical Physics and Biomedical Engineering and reasons thereof:

\_\_\_\_\_

**Description of practice in your country**

Is there an association of Medical Physics?  
 Yes  
 No  
 I do not know

Number of members:  
 1-5  
 6-10  
 11-50  
 51-100  
 101+

Are some Biomedical Engineers also members?  
 Yes  
 No  
 I do not know

Rough percentage?  
\_\_\_\_\_

Is there an association of Biomedical Engineering?  
 Yes  
 No  
 I do not know

Number of members:  
 1-5  
 6-10  
 11-50  
 51-100  
 101+

Are some Medical Physicists also members?  
 Yes  
 No  
 I do not know

Rough percentage?  
\_\_\_\_\_

Is there a combined association of Medical Physics & Biomedical Engineering?  
 Yes  
 No  
 I do not know

Number of members:  
 1-5  
 6-10  
 11-50  
 51-100  
 101+

How many joint departments of Medical Physics and Biomedical Engineering exist in your country?  
\_\_\_\_\_

If the name is different than the joint department of Medical Physics and Biomedical Engineering, please specify the name:  
\_\_\_\_\_

With time, have the number of joint departments:  
 Increased  
 Decreased  
 Remained the same

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Some idea about the reason for the number increasing/decreasing/remaining the same in the last 10 years:

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**Contact details**

Name:

\_\_\_\_\_

E-mail address:

\_\_\_\_\_

Position within your department:

\_\_\_\_\_

Department website URL:

\_\_\_\_\_

Any other input you would like to make:

\_\_\_\_\_