Dean’s Packet

Neurodiagnostic Technology: A Bright Future for Bright Students
The Bureau of Labor and Statistics predicts 11,100 future job openings in Neurodiagnostic Technology (NDT) (2012-2022) and is a “Bright Outlook” profession according to the O-Net Database due to the “much faster than average” projected growth of the profession (15% or higher).

**EMPLOYER EDUCATION LEVEL REQUIREMENTS**

http://www.onetonline.org/link/summary/29-2099.01 updated 2014

- 55% Associates Degree
- 21% Bachelor’s Degree
- 12% Post-Secondary Certification

**BASIC SKILLS REQUIRED**

An individual entering the field of neurodiagnostics should employ these essential skills:

- communication
- critical thinking
- basic computer skills
- manual dexterity

To see the complete information visit: http://www.onetonline.org/link/summary/29-2099.01#WagesEmployment

**ASSET 2018 SALARY SURVEY INFORMATION**

**TRENDS IN THE FIELD OF NDT:**

- 70% of department managers state 2018 staffing needs have increased compared to 2017
- 53% of survey participants state it is MORE difficult to find technologists with previous experience, formal training, and/or NDT credentials than it was 3 years ago
- 31% surveyed agree that NDT credentials are MORE important than 2-3 years ago
- 30 days Jobs remain hard to fill based on data showing the majority of postings remain unfilled for more than 30 days

**SALARIES BY EDUCATION**

The following information was gleaned from the salary survey respondents

<table>
<thead>
<tr>
<th>Education Level</th>
<th>Mean</th>
<th>Median</th>
<th>Range for technologists</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bachelor’s Degree</td>
<td>$70,551</td>
<td>$68,192</td>
<td>$20,500 - $120,000+</td>
</tr>
<tr>
<td>Associate Degree</td>
<td>$62,268</td>
<td>$57,760</td>
<td></td>
</tr>
</tbody>
</table>

**EMPLOYMENT OPPORTUNITIES INCLUDE:**

- Hospitals
- Specialized Sleep and Epilepsy Labs
- Private Practice
- Educational Institutions
- Research Facilities
- Equipment Design
- Sales
- Manufacturing Companies
ABRET NEURODIAGNOSTIC CREDENTIALING AND ACCREDITATION EXAMINATIONS

2018 Candidate Performance
Reprinted with permission from ABRET Neurodiagnostic Credentialing and Accreditation

ELECTROENCEPHALOGRAPHY
EEG Part 1 Examination

R. EEG T. Part I Eligibility:
One of the following must be met and verified for candidates to be eligible to take the exam:

- Path I  CAAHEP accredited NDT program student or graduate
- Path II Formal recognized non-accredited program graduate + 100 documented EEGs
- Path III Associate (or higher) degree or an RPSGT credential, 1 year of clinical EEG experience, 150 documented EEGs, and 30 ASET CEUs in EEG-related topics

R. EEG T. Part II Eligibility:
- Candidates must have passed EEG Part 1
- Pathway I candidates must provide proof of graduating from the CAAHEP accredited program

PASS RATE BY PATHWAY:

<table>
<thead>
<tr>
<th>Year</th>
<th>Number of Candidates</th>
<th>Pathway I CAAHEP</th>
<th>Pathway II Non-accredited</th>
<th>Pathway III Degree &amp; Experience</th>
<th>Pathway IV Experience</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Student</td>
<td>Grad</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Part 1</td>
<td>2014</td>
<td>554</td>
<td>69%</td>
<td>51%</td>
<td>54%</td>
</tr>
<tr>
<td></td>
<td>2015</td>
<td>582</td>
<td>75%</td>
<td>70%</td>
<td>52%</td>
</tr>
<tr>
<td></td>
<td>2016</td>
<td>673</td>
<td>82%</td>
<td>65%</td>
<td>52%</td>
</tr>
<tr>
<td></td>
<td>2017</td>
<td>464</td>
<td>80%</td>
<td>67%</td>
<td>77%</td>
</tr>
<tr>
<td></td>
<td>2018</td>
<td>765</td>
<td>NA</td>
<td>85%</td>
<td>84%</td>
</tr>
<tr>
<td>Part 2</td>
<td>2014</td>
<td>448</td>
<td>NA</td>
<td>55%</td>
<td>47%</td>
</tr>
<tr>
<td></td>
<td>2015</td>
<td>442</td>
<td>NA</td>
<td>75%</td>
<td>76%</td>
</tr>
<tr>
<td></td>
<td>2016</td>
<td>603</td>
<td>NA</td>
<td>52%</td>
<td>70%</td>
</tr>
<tr>
<td></td>
<td>2017</td>
<td>685</td>
<td>NA</td>
<td>54%</td>
<td>70%</td>
</tr>
</tbody>
</table>

*In 2018 the two-part EEG board exam was combined into one single written exam reflected above.*

Pass Rate by Level of Education (2018):
- 68%  GED/High School
- 79%  Vo-tech/Associate Degree
- 89%  Bachelor’s Degree
- 79%  Master’s/Advanced Degree

EEG Written Exam:
- 55%  2014 = 554 Candidates
- 71%  2015 = 582 Candidates
- 70%  2016 = 673 Candidates
- 75%  2017 = 454 Candidates
- 76%  2018 = 765 Candidates
### Evoked Potentials

**R. EP T. Eligibility:**

One of the following must be met and verified for candidates to be eligible to take the R. EP T. exam:

- Path I: Candidate must be a graduate of a CAAHEP-accredited NDT Program
- Path II: Candidate must have at least an associate degree or R. EEG T. plus two years of clinical experience, 25 clinical EP studies and 30 hours of EP/NIOM education hours

**Pass Rate by Education:**

<table>
<thead>
<tr>
<th>Year</th>
<th>Number of Candidates</th>
<th>Overall Pass Rate</th>
<th>Pathway I CAAHEP</th>
<th>Pathway II Degree &amp; Experience</th>
<th>Pathway III R. EEG T. Credential</th>
</tr>
</thead>
<tbody>
<tr>
<td>2014</td>
<td>83</td>
<td>57%</td>
<td>47%</td>
<td>37%</td>
<td>52%</td>
</tr>
<tr>
<td>2015</td>
<td>91</td>
<td>67%</td>
<td>63%</td>
<td>64%</td>
<td>70%</td>
</tr>
<tr>
<td>2016</td>
<td>65</td>
<td>60%</td>
<td>49%</td>
<td>44%</td>
<td>69%</td>
</tr>
<tr>
<td>2017</td>
<td>36</td>
<td>70%</td>
<td>93%</td>
<td>53%</td>
<td>NA</td>
</tr>
<tr>
<td>2018</td>
<td>40</td>
<td>55%</td>
<td>53%</td>
<td>50%</td>
<td>NA</td>
</tr>
</tbody>
</table>

*Path III discontinued in 2018.

### Neurophysiologic Intraoperative Monitoring

**CNIM Eligibility:**

One of the following must be met and verified for candidates to be eligible to take the CNIM exam:

- Path I: Candidate must graduate CAAHEP-accredited NIOM program plus 100 NIOM cases
- Path II: Candidate must have R. EEG T. or R. EP T. plus documentation of 150 NIOM cases
- Path III: Candidate must have at least a bachelor’s degree plus documentation of 150 cases monitored and 30 NIOM education hours
- Path IV: Candidate must have certificate of completion from an ABRET-recognized program (current listings found at www.abret.org) plus documentation of 150 cases monitored.

**Pass Rate by Education:**

<table>
<thead>
<tr>
<th>Year</th>
<th>Number of Candidates</th>
<th>Path I</th>
<th>Path II</th>
<th>Path III</th>
<th>Path IV</th>
<th>High School</th>
<th>Vo-tech/ AS Degree</th>
<th>Bachelor’s Degree</th>
<th>Advanced Degree</th>
</tr>
</thead>
<tbody>
<tr>
<td>2014</td>
<td>404</td>
<td>NA</td>
<td>43%</td>
<td>60%</td>
<td>NA</td>
<td>50%</td>
<td>36%</td>
<td>57%</td>
<td>63%</td>
</tr>
<tr>
<td>2015</td>
<td>450</td>
<td>NA</td>
<td>76%</td>
<td>75%</td>
<td>NA</td>
<td>21%</td>
<td>64%</td>
<td>54%</td>
<td>60%</td>
</tr>
<tr>
<td>2016</td>
<td>536</td>
<td>59%</td>
<td>77%</td>
<td>58%</td>
<td>NA</td>
<td>27%</td>
<td>56%</td>
<td>71%</td>
<td>59%</td>
</tr>
<tr>
<td>2017</td>
<td>360</td>
<td>69%</td>
<td>100%</td>
<td>67%</td>
<td>NA</td>
<td>50%</td>
<td>49%</td>
<td>72%</td>
<td>83%</td>
</tr>
<tr>
<td>2018</td>
<td>352</td>
<td>85%</td>
<td>87%</td>
<td>76%</td>
<td>96%</td>
<td>67%</td>
<td>82%</td>
<td>79%</td>
<td>79%</td>
</tr>
</tbody>
</table>

*Current Path I not offered prior to 2016. **Path IV created in 2018.
The most common reasons given for taking the CLTM exam:

1. **PROFESSIONAL ADVANCEMENT**
2. **PERSONAL GOAL**
3. **JOB REQUIREMENT**
4. **COMPETENCY DEMONSTRATION**
NEURODIAGNOSTIC TECHNOLOGY PROGRAMS ARE ACCREDITED BY THE COMMISSION ON ACCREDITATION OF ALLIED HEALTH EDUCATION PROGRAMS (CAAHEP)

CAAHEP requires each allied health profession to maintain a committee to develop educational criteria and conduct program assessments. The CAAHEP committee that works with neurodiagnostic programs is called the “Committee on Accreditation for Education in Neurodiagnostic Technology” (CoA-NDT) http://coa-ndt.org/

The primary function of the CoA-NDT is to review and evaluate educational programs in Neurodiagnostic Technology to determine compliance with the established Standards and Guidelines for an Accredited Educational Program in Neurodiagnostic Technology. Recommendations regarding program accreditation are forwarded to the CAAHEP for action.

Following an initial application, the first step in the accreditation process is development and submission of a self-study document and an initial site visit. Continuing accreditation involves submission of an Annual Report that demonstrates competencies in the three learning domains (cognitive, affective and psychomotor), which are measured by various means in the course and clinical work and overall learning outcomes. The outcomes are measured by the graduate competencies, job placement and national registry exam statistics of program graduates.

EMPLOYMENT FOR GRADUATES OF CAAHEP ACCREDITED NEURODIAGNOSTIC PROGRAMS:

90% Average Rate of Employment

50% of programs reporting employment rates in excess of 90% and the most common rate being reported as 100%

NUMBER OF GRADUATES FROM CAAHEP ACCREDITED PROGRAMS BY YEAR:

<table>
<thead>
<tr>
<th>Year</th>
<th>Graduates</th>
</tr>
</thead>
<tbody>
<tr>
<td>2013</td>
<td>191</td>
</tr>
<tr>
<td>2018</td>
<td>300</td>
</tr>
</tbody>
</table>

24 CAAHEP accredited NDT programs nationwide
(4 of these are online programs)
AS OF JUNE 2019

HELPFUL TERMS AND ACRONYMS

**EEG**: Electroencephalography  
**CEUs**: Continuing Education Units, needed for certification and recertification of credentials  
**ASET**: ASET - The Neurodiagnostic Society (formerly the American Society of Electroneurodiagnostic Technologists)  
**ABRET**: ABRET - Neurodiagnostic Credentialing and Accreditation  
**EP**: Evoked Potentials  
**NIOM**: Neurophysiologic Intraoperative Monitoring, also designated IONM and IOM in industry materials  
**CLTM**: Certification for Long Term Monitoring  
**CNIM**: Certification for Neurophysiologic Intraoperative Monitoring  
**CAAHEP and CoA-NDT**: See top of this page

CAAHEP recently approved the Standards and Guidelines for the Accreditation of Educational Programs in Neurophysiologic Intraoperative Monitoring. Dates and applications for Initial Accreditation can be found at http://www.coa-ndt.org.
There are a total of 24 NDT CAAHEP-accredited training programs in the US. As of June 2019, there were 400 students enrolled in these programs nationwide. It is important to anticipate some student attrition when predicting the number of future graduates from this group. Contrast this with the over 800 jobs listed nationwide via Indeed.com in June of 2019.

**GROWTH OF NDT PROGRAMS ACCREDITED BY CAAHEP**

**SCHOOLS FOR NEURODIAGNOSTIC TECHNOLOGY**

For a list of additional programs by state visit, [www.aset.org/ndschools](http://www.aset.org/ndschools).

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![Growth of CAAHEP-Accredited Programs 1995 – 2019](image)

**SCHOOLS FOR NEURODIAGNOSTIC TECHNOLOGY**

![Map of Schools for Neurodiagnostic Technology](image)
DID YOU KNOW?

ASET offers an off-the-shelf core curriculum designed for schools to start their very own Neurodiagnostic Programs! Visit ASET.org/CoreEEG to learn more!

Your institution can offer Certificate or Degree programs. Advance your students today!

For more information contact Maureen Carroll at Maureen@aset.org

ASET.org/YouTube  Facebook.com/ASETNDS  ASET.org/LinkedIn

For additional information, please visit www.aset.org