

AMENDED IN SENATE MAY 13, 2014

AMENDED IN SENATE MAY 7, 2014

AMENDED IN SENATE APRIL 22, 2014

SENATE BILL

No. 836

Introduced by Senator Corbett

~~(Coauthor: Senator~~ *Coauthors: Senators Anderson, Beall, Block, Cannella, Correa, Evans, Galgiani, Hancock, Hill, Lara, Lieu, Liu, Nielsen, Roth, and Wolk)*

(Coauthor: Assembly Member Waldron)

January 6, 2014

An act to add Chapter 15 (commencing with Section 92985) to Part 57 of Division 9 of Title 3 of the Education Code, relating to brain research.

LEGISLATIVE COUNSEL'S DIGEST

SB 836, as amended, Corbett. Brain research: Cal-BRAIN program.

Existing law establishes various health research grant programs, including the Cancer Research Program, the Breast Cancer Research Program, and the Spinal Cord Injury Research Program.

This bill, the California Blueprint for Research to Advance Innovations in Neuroscience (Cal-BRAIN) Act of 2014, would request the Regents of the University of California to establish the Cal-BRAIN program to leverage California's research assets and the federal BRAIN Initiative's funding opportunities to accelerate the development of brain mapping techniques, including the development of new technologies, in order to achieve certain goals. The bill would additionally request the University of California to *convene certain stakeholders to administer the Cal-BRAIN program consistent with specified objectives*

to do specified tasks and to provide information about the program through an Internet Web site. These provisions would only be implemented to the extent that adequate funding is appropriated to the University of California, as specified.

Vote: majority. Appropriation: no. Fiscal committee: no.
State-mandated local program: no.

The people of the State of California do enact as follows:

1 SECTION 1. The Legislature hereby finds and declares all of
2 the following:

3 (a) In April 2013, President Obama unveiled the Brain Research
4 through Advancing Innovative Neurotechnologies (BRAIN)
5 Initiative — a collaborative program that will map the activity of
6 every neuron in the human brain with a programmed total
7 investment of more than \$300 million per year over 10 years.

8 (b) The BRAIN Initiative is launching with approximately \$110
9 million in funding for research in 2014, as well as additional private
10 sector investment from institutes and foundations based in
11 California.

12 (c) California is poised to be a world leader in this research
13 effort given the prominent role of scientists and industry leaders
14 throughout the state.

15 (d) Four of the six scientists who proposed the BRAIN Initiative
16 and six of the 15 members of the Advisory Committee to the
17 Director of the National Institutes of Health for the BRAIN
18 Initiative are from California.

19 (e) Some California-based corporations have indicated they are
20 interested in collaborating with brain research institutions on
21 research for the BRAIN Initiative to bring new discoveries to the
22 marketplace.

23 (f) The BRAIN Initiative has the potential to be a major driver
24 of new industries and jobs in biotechnology, artificial intelligence,
25 and information technologies, as well as a catalyst for major
26 breakthroughs in brain-related diseases, injuries, and illnesses,
27 including Alzheimer's disease, which is programmed to cost
28 California over \$30 billion a year by 2030.

29 (g) The products of scientific research improve the quality of
30 our lives and health and provide us with high-quality jobs that
31 employ and demand a highly skilled workforce.

1 (h) Given California’s assets and capacity for collaboration,
2 entrepreneurship, and innovation, a state investment to expand and
3 accelerate this research in the state and to promote the translation
4 of breakthroughs into the marketplace is an important investment
5 in the intellectual infrastructure for California’s economic future.

6 SEC. 2. Chapter 15 (commencing with Section 92985) is added
7 to Part 57 of Division 9 of Title 3 of the Education Code, to read:

8
9 CHAPTER 15. THE CALIFORNIA BLUEPRINT FOR RESEARCH TO
10 ADVANCE INNOVATIONS IN NEUROSCIENCE ACT OF 2014

11
12 92985. This act shall be known, and may be cited, as the
13 California Blueprint for Research to Advance Innovations in
14 Neuroscience (Cal-BRAIN) Act of 2014.

15 92986. (a) The Regents of the University of California are
16 requested to establish the Cal-BRAIN program to leverage
17 California’s vast research assets and the federal BRAIN Initiative’s
18 funding opportunities to accelerate the development of brain
19 mapping techniques, including the development of new
20 technologies, which will create new, high-paying jobs in California
21 while advancing patient care and improving lives, in order to
22 achieve the following goals:

23 (1) Maintain California’s leadership role in neuroscience
24 innovation.

25 (2) Develop a dynamic map of the human brain that provides
26 researchers, physicians, and engineers with the knowledge
27 necessary to develop new treatments and technologies that will
28 improve lives and reduce the costs of providing health care.

29 (3) Grow California’s economy through the expansion of
30 California’s high technology and biotechnology sectors.

31 (4) Train the next generation of scientists for the neuroscience
32 and engineering jobs of the future.

33 (b) The University of California is requested to utilize
34 California’s unique collaborative research environment by
35 ~~administering~~ *convening stakeholders from public and private*
36 *research institutions, national laboratories, biotechnology and*
37 *high technology companies, and venture capital firms to administer*
38 the Cal-BRAIN program ~~consistent with~~ *to do* all of the following:

39 (1) ~~Convening stakeholders from public and private research~~
40 ~~institutions, biotechnology and high technology companies, and~~

1 ~~venture capital firms to develop~~ *Develop* the governing structure
2 of the Cal-BRAIN program.

3 (2) ~~Adopting~~ *Adopt* a research plan that identifies milestones
4 for achieving the goals of the Cal-BRAIN program.

5 (3) ~~Establishing~~ *Establish* competitive, merit-based opportunities
6 for interested public and private California research institutions
7 *and national laboratories* to apply for Cal-BRAIN program
8 funding.

9 (4) ~~Maintaining~~ *Maintain* the flexibility to adjust the Cal-BRAIN
10 program's priorities and focus based upon knowledge gained from
11 scientific discoveries.

12 (5) ~~Establishing~~ *Establish* a technology transfer program to
13 identify and accelerate the commercial application of both early
14 and late-stage discoveries and technologies from the Cal-BRAIN
15 program into the marketplace and to promote new and expanded
16 technology sectors in the state.

17 (6) ~~Soliciting~~ *Solicit* contributions to the Cal-BRAIN program
18 with a goal of achieving a nonstate funding match that meets or
19 exceeds the financial investment by the state.

20 92987. The Regents of the University of California are
21 requested to provide information about the Cal-BRAIN program
22 through an Internet Web site, including a brief description of
23 funded projects and activities.

24 92988. This chapter shall be implemented only to the extent
25 that adequate funding for its purposes, as determined by the
26 Regents of the University of California, is appropriated to the
27 University of California in the annual Budget Act or other statute.