

**TENNESSEE GENERAL ASSEMBLY  
FISCAL REVIEW COMMITTEE**



**FISCAL NOTE**

**SB 257 – HB 1822**

March 29, 2011

**SUMMARY OF BILL:** Requires all persons arrested for the commission of a felony on or after January 1, 2012, to submit a biological specimen for DNA testing prior to release from custody. The specimen will be collected by the arresting authority and sent to the Tennessee Bureau of Investigation (TBI) for collection.

**ESTIMATED FISCAL IMPACT:**

**Increase State Expenditures - \$1,428,900/One-Time  
\$6,746,300/Recurring**

Assumptions:

- TBI currently processes 15,000 DNA samples per year.
- TBI estimates that 175,000 additional samples will be processed under the provisions of this bill.
- TBI currently employs four forensic scientists and six forensic technicians who process DNA samples in three labs across the state.
- According to TBI, a forensic scientist can process 122 samples per day.
- It is estimated that a TBI forensic scientist works 250 days per year.
- One forensic scientist can process 30,500 (122 x 250) samples per year.
- According to information provided by TBI, the Bureau has the present capacity to process 122,000 (4 x 30,500) samples per year.
- TBI currently has the resources to increase its capacity by 107,000 (122,000 - 15,000) samples.
- TBI will need three forensic scientist positions and three forensic technician positions to cover the 68,000 (175,000 - 107,000) additional samples.
- The total recurring increase in state expenditures for three additional forensic scientists is \$193,377 which includes salaries (3 x \$48,252 = \$144,756) and benefits (3 x \$16,207 = \$48,621).
- The total recurring increase in state expenditures for three additional forensic technicians is \$122,298 which includes salaries (3 x \$28,920 = \$86,760) and benefits (3 x \$11,846 = \$35,538).

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- It is assumed that TBI will stagger work shifts to avoid purchasing more machines (i.e. 3500XL Genetic Analyzer, \$170,000 each) than are necessary to complete the increase in samples to process. The 3500XL, if operated 24-hours per day, can process 480 samples per day (16 samples per cycle, 45 minute cycles, 30 cycles per day) for 260 days per year for a total of 124,800 samples (480 x 260) per year.
- TBI will have recurring expenditures for the purchase of 175,000 collection kits at a cost of \$1,137,500 (\$6.50 x 175,000); 180 Identifier Plus Kits at a cost of \$3,999,960 (\$22,222 x 180); and 2 Extraction/Quantitation Kits at a cost of \$900,000 (\$450,000 x 2). Other recurring expenditures include travel (\$9,000); printing (\$1,600); utilities (\$300); communication (\$4,800); supplies (\$24,625); equipment (\$349,700); and professional services (\$3,113).
- There will be a one-time increase in state expenditures of \$1,428,930 which includes professional services (\$3,480), equipment (\$1,263,000), and supplies (\$162,450).
- The one-time increase in expenditures of \$1,263,000 for equipment includes three Tecan Robots(liquid handling, \$160,000 each, \$480,000 total), Expert System (software, \$20,000), one LIMS and Bar Code System (\$50,000), one 3500XL (DNA analyzer, \$170,000), two punch systems (cuts buccal swab, \$45,000 each, \$90,000 total), three 9700s (magnifies DNA for processing, \$8,500 each, \$25,500 total), three 7500s (analyzes DNA fragments, \$42,500 each, \$127,500 total), three PCR hoods (\$5,000 each, \$15,000 total), one pipetors set (\$9,000), three centrifuges (\$2,500 each, \$7,500 total), one plate (\$3,500), one validation check (must be implemented in order to validate any information used in a trial, \$265,000).

## **CERTIFICATION:**

The information contained herein is true and correct to the best of my knowledge.



James W. White, Executive Director

/jdb